

Welcome to the
DZG
Annual Meeting
2006
in
Münster, Germany
September 16th-20th



*99. Annual Meeting of the
German Zoological Society
16. – 20. September 2006
Münster*

Welcome address

Dear colleagues:

Welcome to Münster and thank you very much for your participation!

The 99th Annual Meeting of the German Zoological Society has attracted many participants from all over Europe. We are glad to present you a program that covers the broad spectrum of modern Zoology.

The Program Committee has put together a well balanced selection of Plenary Lectures, Symposia, and Regular Scientific Sessions. In addition, the program will provide plenty of room for discussing more specialized issues during the breaks and the social events. The Poster Sessions represent an essential part of the conference where scientific results from more specific investigations will be presented. There will be ample time for discussion with the authors at the posters. Hopefully, this program will stimulate vivid discussions, new ideas and fruitful collaborations.

We are pleased to act as host to you here in Münster for the next few days.

For the organizers,
Wolf-Michael Weber

General information

Conference venue:

Universität Münster, Auditorium Hindenburgplatz 10-12, Lecture rooms of the department biology

Registration:

Congress documents and badges will be handed out at the registration desk (Auditorium Hindenburgplatz 10-12)

The desk is open:

| | | |
|------------|---------------|---------------|
| Saturday, | September 16: | 16:00 – 20:00 |
| Sunday, | September 17: | from 8:00 |
| Monday, | September 18: | from 8:00 |
| Tuesday, | September 19: | from 8:00 |
| Wednesday, | September 20: | 8:00 – 10:00 |

Congress Secretariat:

Institute of Animal Physiology
Westfalian Wilhelms University
Hindenburgplatz 55, 48143 Muenster

Phone: +49 (0) 251 – 83 217 83
Fax: +49 (0) 251 – 83 217 85
E-Mail: dzg2006@uni-muenster.de

Oral presentations:

Audio-visual equipment (Windows PC with CD-ROM drive and USB-port, video beamer) will be provided for Powerpoint presentations (preferably on USB stick or CD) in every lecture hall. Presentation program in Powerpoint (PC-Version). Videos can be presented only if embedded in the Powerpoint presentation.

Please hand the presentation directly to the attendant in the respective lecture hall (at least 30 min prior to the respective session) and check your presentation in advance. For requirements other than listed above or problems, please contact the local organizing committee or consult the attendant in the respective lecture hall.

Poster presentations:

Posters should be fixed no later than Sunday, 17th 10:00 and should remain there during the whole meeting. Poster walls are denoted.

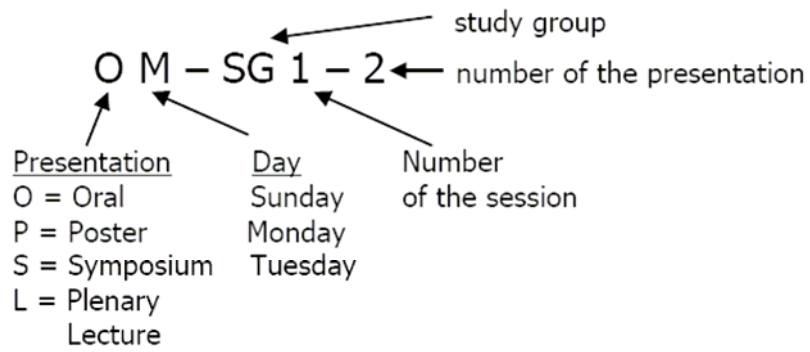
The poster size must not exceed DIN A0 (90 cm in width, 120 cm in height). Poster area is located in the foyer, Hindenburgplatz 10-12. The authors of posters with **odd** numbers have to be present from **18:30 until 19:30**; the authors of posters with **even** numbers have to be present from **19:30 until 20:30**.

Social programme:

| | |
|--------------------------------------|---------------------------------------|
| Saturday, September 16 th | Welcome party for all participants |
| Monday, September 18 th | Poster session with beer and sausages |
| Tuesday, September 19 th | Farewell Party |

General information

Presentation code



Study groups abbreviations:

| | |
|-----------|-------------------------------|
| BB | Behavioural Biology |
| EB | Evolutionary Biology |
| DB | Developmental Biology |
| NB | Neurobiology |
| EC | Ecology |
| MO | Morphology |
| ZS | Zoological Systematics |
| PH | Physiology |

Saturday

Saturday 16.09.2006, Hindenburgplatz 55, SZH 55

14:00 Meeting of the Advisory Board DZG
Meeting of the Study Group Speakers (Badestr. 9)

16:00 Meeting Advisory council DZG

Saturday

Opening

Hörsaalgebäude Hindenburgplatz 10-12, H1

Öffentlicher Abendvortrag

18:00-ca. 19:00 Mate choice, perfumes and immuno genetics
Manfred Milinski (MPI Plön)

19:00 Welcome Party

Sunday

Sunday 17.09.2006 , Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Wolf-Michael Weber (Münster)

- 09:00-09:30 Opening
Prorektor, Prof. Dr. med. Wolfgang E. Berdel
Dekan, Prof. Dr. Norbert Sachser
n.n., Zoologie in Münster im Wandel der Zeit
- 09:30-10:30 "Systems Biology approaches to understand peptide transporters"
LS_1.01 *Hannelore Daniel* (TUM München)
- 10:30-11:00 Coffee Break

Sunday

LS 2

Plenary lecture

Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Diethard Tautz (Köln)

11:00-11:30 „Molecular imaging: From Mice to Human“,
LS_2.01 *Otmar Schober* (University Münster)

11:30-12:00 Optical imaging of physiological functions in transparent animals
LS_2.02 *Ralph Pirow* (University Münster)

12:00-13:00 Lunch

Sunday

OS BB 1

Oral session

Behavioural Biology, Hörsaalgebäude Hindenburgplatz 10-12, H2

Session 1

Chair: Björn Mauck (Bochum)

- 13:00-13:30 Long-term fitness effects of early developmental stress in zebra finches
OS_BB_1.01 *Marc Naguib* (Bielefeld)
- 13:30-13:45 Maternal responses to pup calls in guinea pigs: effects of litter size and
offspring need
OS_BB_1.02 *Melanie Kober, Fritz Trillmich, Marc Naguib* (Bielefeld)
- 13:45-14:00 Instability of the social environment affects sex ratio at birth in guinea pigs
(*Cavia aperea f. porcellus*): an adaptive maternal effect?
OS_BB_1.03 *Kristina Kemme, Sylvia Kaiser, Nikolaus von Engelhardt, Ton G. G. Groothuis, Norbert Sachser*
(Münster)

Sunday

OS MO 1

Oral session

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, H4

Session 1

Chair: Alexander Haas (Tübingen)

13:00-13:30 Corrosion casting, micro-CT and 3-D-reconstruction – new insights into the circulatory system of malacostracan crustaceans

OS_MO_1.01 *Christian S. Wirkner, Stefan Richter (Jena)*

13:30-14:00 Imaging applications of Synchrotron radiography in zoological morphology

OS_MO_1.02 *Oliver Betz, Michael Heethoff, Daniela Weide, Ulrike Wegst, Mark Westneat (Tübingen)*

14:00-14:15 Synchrotron x-ray-videography and -tomography combined with physiological measurements for analysis of circulation and respiration dynamics in insects (*Drosophila* and *Calliphora*).

OS_MO_1.03 *Lutz Thilo Wasserthal, Peter Cloetens, Rainer Fink (Erlangen/Nürnberg)*

14:15-14:30 3D-reconstruction in arthropods: advantages and disadvantages of semi-thin section series and tomography

OS_MO_1.04 *Nikolaus Urban Szucsich, Markus Hable, Markus Pennerstorfer, Manfred Walzl, Günter Pass (Wien, Austria)*

Sunday

OS DB 1

Oral session

Developmental Biology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 1

Chair: Matthias Gerberding (Tübingen)

13:00-13:30 Evolution of segmentation: The molecular basis of segmentation in spiders and millipedes

OS_DB_1.01 *Wim Damen* (Köln)

13:30-13:45 FGFR signalling is conserved from Hydra to Drosophila

OS_DB_1.02 *Stefanie Sudhop, Kathrin Hüsken, Angelika Vogt, Roxanne Schröter, Monika Hassel* (Marburg)

13:45-14:00 The nematode genus *Pristionchus* as a model system for biodiversity, biogeography and invertebrate-interactions

OS_DB_1.03 *Matthias Herrmann, Werner E. Mayer, Ralf J. Sommer* (Tübingen)

Sunday

OS PH 1

Oral session

Short presentation

Physiologie, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 1

Chair: Hans Merzendorfer (Osnabrück)

13:00-13:15 Identification of novel antimicrobial peptides of the microbial stress resistant rat-tailed maggots of the drone fly *Eristalis tenax*

OS_PH_1.01 *Boran Altincicek, Andreas Vilcinskis (Giessen)*

13:15-13:30 Tyrosinase versus catecholoxidase: What makes the difference?

OS_PH_1.02 *Heinz Decker, Thorsten Schweikardt, Dorothea Nillius, Elmar Jaenicke, Felix Tuczek (Mainz)*

13:30-13:45 A putative antimicrobial peptide family in Hemocytes of the tunicate *Ciona intestinalis*

OS_PH_1.03 *Henning Fedders, Matthias Leippe (Kiel)*

13:45-14:00 Immune system of the *Drosophila* airway epithelium

OS_PH_1.04 *Christina Wagner, Thomas Roeder (Kiel)*

14:00-14:15 Antimicrobial and pore forming activity of caenopores, members

OS_PH_1.05 *Mareike Stanisak, Thomas Roeder, Iris Bruchhaus, Matthias Leippe (Kiel)*

14:15-14:30 Oxygen-dependent globin expression in zebrafish

OS_PH_1.06 *Anja Roesner, Thomas Hankeln, Thorsten Burmester (Mainz)*

14:30-15:00 Coffee Break

Sunday

OS DB 2

Oral session

Developmental Biology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 2

Chair: Thomas Bosch (Kiel)

- 15:00-15:30 Characterization of Stem Cells and Germ Cells in basal Platyhelminthes and Acoela
OS_DB_2.01 *Peter Ladurner* (Innsbruck, Austria)
- 15:30-15:45 The insect labrum – a case for saltatorial evolution?
OS_DB_2.02 Nico Posnien, Fakrudin Bashasab, *Gregor Bucher* (Göttingen)
- 15:45-16:00 Characterization of Newly Identified Genes within the Sex Determination Locus of the Honey Bee
OS_DB_2.03 *Tanja Gempe*, Martin Hasselmann, Morten Schioett, Tanja Beye (Düsseldorf)
- 16:00-16:15 Localised RNAs and early specification of germ layers in the crustacean *Parhyale hawaiiensis*
OS_DB_2.04 *Matthias Gerberding*, Günes Özhan, Johanna Havemann, Peter Nestorov, Nadine Heckmann (Tübingen)
- 16:15-16:30 Origin and development of the wing circulatory organs in *Drosophila*
OS_DB_2.05 *Markus Tögel*, Pass Günther, Paululat Achim (Osnabrück)
- 16:30-16:45 Development of nephridia in *Platynereis dumerilii*
OS_DB_2.06 *Christian Hasse*, Kathrin Sobjinski, Nicole Rebscher, Monika Hassel ((Marburg)

Sunday

OS EB 1

Oral session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 1

Chair: Barbara Hellriegel (Zürich, Switzerland)

- | | |
|----------------------------------|---|
| 15:00-15:30 OS_EB_1.01 | Honesty of bright birds: a role for testosterone? <i>Anne Peters</i> (Radolfzell) |
| 15:30-16:00 OS_EB_1.02 | The evolution of family interactions: conflicts and coadaptation <i>Mathias Kölliker</i> (Basel, Switzerland) |
| 16:00-16:15 OS_EB_1.03 | Relatedness predicts paternity in the smooth newt (<i>Triturus vulgaris</i>), regardless of male mating order <i>Robert Jehle</i> (Bielefeld) |
| 16:15-16:30 OS_EB_1.04 | Adaptations to stream and pond breeding in the fire salamander (<i>Salamandra salamandra</i>) as a natural study system for adaptive speciation <i>Sebastian Steinfartz</i> , Markus Weitere, Diethard Tautz (Bielefeld) |

Sunday

OS_EC_1

Oral session

Ecology, Hörsaalgebäude Hindenburgplatz 10-12, H4

Session 1

Chair: Caroline Müller (Würzburg)

- 15:00-15:30 Chemically mediated mechanisms of courtship and mating in parasitic wasps
OS_EC_1.01 *Joachim Ruther, PD Dr. (Berlin)*
- 15:30-16:00 The impact of climate change on the spring growth of plankton
OS_EC_1.02 *Ulrich Sommer, Nicole Aberle-Malzahn, Kathrin Lengfellner (Kiel)*
- 16:00-16:15 Consequences of non-linearity in nature: Chaos in experimental food webs
OS_EC_1.03 *Hartmut Arndt, Lutz Becks (Köln)*
- 16:15-16:30 Rapid range expansion of *Metriopectera roeselii* (Hagenbach, 1822) after the 2003 climatic anomaly
OS_EC_1.04 *Malte Damerau, Axel Hochkirch (Osnabrück)*

Sunday

OS_ZS_1

Oral Session

Zoological Systematics, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 1

Chair: Carsten Lüter (Berlin)

- 15:00-15:30 Circumpolar species in the Antarctic benthos in the light of cryptic speciation: Fact or folklore?
OS_ZS_1.01 *Christoph Held* (Bremerhaven)
- 15:30-16:00 Determining data congruence between molecular data sets as well as to morphological data using a bootstrap alteration approach
OS_ZS_1.02 *Torsten Struck* (Osnabrück)
- 16:00-16:15 Tiny monsters of the deep: phylogeny and genetic diversity of deep-sea isopods (Crustacea: Isopoda: Asellota)
OS_ZS_1.03 *Michael J. Raupach, Johann-Wolfgang Wägele* (Bonn)
- 16:15-16:30 Analysing basal arthropod relationships with mitochondrial genome data
OS_ZS_1.04 *Lars Podsiadlowski, Georg Mayer, Anke Braband* (Berlin)

Sunday

**Hindenburgplatz 55, SZH 55, Kursraum H55, Hörsaal H55;
Hindenburgplatz 10-12, H1-H4, Hörsaal H55; Badestrasse 9 HB9**

17:00-18:00 Meeting of the Study Groups

Sunday

Schlossplatz 2, Aula of the Münster Castle

18:30-?? DZG science award

Monday

LM 1

Plenary lecture

Monday 18.09.2006, Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Rüdiger J. Paul, Norbert Sachser (Münster)

Stress Resistance:

- 08:30-09:30 "Molecular evolution of the stress response"
LM_1.01 *Dietmar Kültz* (University of California, Davis, USA)
- 09:30-10:30 "Reproduction and resistance to stress: when and how?"
LM_1.02 *John C. Wingfield* (University of Washington, USA)
- 11:30-11:00 Coffee Break

Monday

SM 1

Symposium

Symposium „Imaging“

Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Ralph Pirow (Münster)

- 11:00-11:20 Scanning electrical images: Spatial resolution and differences in the shape of electric images of defined objects in *Gnathonemus petersii*
SM_1_1.01 *Roland Pusch, Gerhard von der Emde (Bonn)*
- 11:20-11:40 Snap-shot of a curl: the quantitative imaging of fluid structures around flapping insect wings
SM_1_1.02 *Fritz-Olaf Lehmann,, Simon Pick (Ulm)*
- 11:40-12:00 Image analysis and data mining as tools to understand dynamic processes during early development of zebrafish (*Danio rerio*)
SM_1_1.03 *Thorsten Schwerte (Innsbruck, Austria)*
- 12:00-12:20 Application of NMR imaging techniques in thermal physiology
SM_1_1.04 *Christian Bock (Bremerhaven)*
- 12:20-12:40 Quaternary structure of horseshoe crab (*Limulus polyphemus*) hemocyanin by 3D cryo-electron microscopy, homology modelling and automated fitting
SM_1_1.05 *Ulrich Meissner, Andreas G. Martin, Michael Stohr, Frank Depoix, Jürgen Markl (Mainz)*

Monday

SM 2

Symposium

Symposium „Stress Resistance“

Hörsaalgebäude Hindenburgplatz 10-12, H3

Chair: Frank Nunes (Münster)

- 11:00-11:15 Expression of a mitochondrial peroxiredoxin prevents programmed cell death
in protozoan parasite *Leishmania donovani*
SM_2_1.01 *Iris Bruchhaus, Simone Harder (Hamburg)*
- 11:15-11:30 The MAP kinase JNK-1 of the *Caenorhabditis elegans* nervous system
modulates insulin-like signaling and stress responses in peripheral cells
SM_2_1.02 *Marc Wolf, Arne Henkel, Alexander Heinick, Frank Nunes, Rüdiger Jörg Paul (Münster)*
- 11:30-11:45 The effect of dietary anthocyanins on the immune system and bill brightness
in blackcaps
SM_2_1.03 *Carlo Catoni, Schaefer H. Martin, Peters Anne (Radolfzell)*
- 11:45-12:00 Experimental co-evolution of *Caenorhabditis elegans* and its microparasite
Bacillus thuringiensis
SM_2_1.04 *Rebecca Schulte, Carsten Makus, Barbara Hasert, Hinrich Schulenburg (Tübingen)*
- 12:00-12:15 Response to thermal stress in *Daphnia magna*
SM_2_1.05 *Bettina Zeis, Bettina Budeus, Insa Buers, Sabine Zumbrägel, Rüdiger P Paul (Münster)*
- 12:15-12:30 Stressproteins: molecular adaptations of tolerance in tardigrades
SM_2_1.06 *Ralph O. Schill, Brian McGee, Alan Tunnacliffe (Stuttgart)*
- 12:30-13:30 Lunch

Monday

OM_NB_1

Oral session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 1

Chair: Joachim Schachtner (Marburg)

- 13:30-14:00 Visual Midbrain Function in Vertebrates
OM_NB_1.01 *Harald Luksch* (Aachen)
- 14:00-14:15 Cells in the vomeronasal organ express odorant receptors but project to the
accessory olfactory bulb
OM_NB_1.02 *Jörg Strotmann, Torben Feistel, Olga Levai, Heinz Breer* (Hohenheim)
- 14:15-14:30 The cerebral and cerebellar localization of the subunits of the NO-receptive
soluble guanylyl cyclase (sGC): From rodents to primates
OM_NB_1.03 *Hans-J. Bidmon, Boris Görg, Eberhard Buse, Karl Zilles, Sönke Behrends* (Düsseldorf)
- 14:30-14:45 Neuropeptidomics of the nervous system of the waterflea *Daphnia magna*
OM_NB_1.04 *Heinrich Dirksen, Qian Zhang* (Stockholm, Sweden)
- 14:45-15:00 Effects of cyclic nucleotides and octopamine on olfactory sensilla of the
hawkmoth *Manduca sexta*
OM_NB_1.05 *Christian Flecke, Monika Stengl* (Marburg)

Monday

OM_ZS_2

Oral session

Short presentation

Zoological Sytematics, Hörsaalgebäude Hindenburgplatz 10-12, H4

Session 2

Chair: Lars Vogt (Berlin)

- 13:30-13:45 MorphDBase - a Morphological Description Data Base
OM_ZS_2.01 *Peter Grobe, Lars Vogt (Berlin)*
- 13:45-14:00 Phylogeny, reproductive morphology and biogeography of Asian freshwater
crabs (Brachyura, Gecarcinucoidea)
OM_ZS_2.02 *Sebastian Klaus, Dirk Brandis , Christoph Schubart (Regensburg)*
- 14:00-14:15 Ancient diversification – Phylogeny of the genus Tetricia LATREILLE, 1804
in Europe
OM_ZS_2.03 *Axel Hochkirch, Julia Gröning (Osnabrück)*
- 14:15-14:30 Structure and phylogenetic significance of pigmented eyes and photoreceptor
cells in amphonimid and hesionid polychaetes (Annelida)
OM_ZS_2.04 *Günter Purschke, Dominick Suschenko (Osnabrück)*
- 14:30-14:45 Fine structure of lateral eyes in Chilopoda and phylogenetic implications
OM_ZS_2.05 *Carsten H.G. Müller, Jörg Rosenberg, Benno V. Meyer-Rochow (Rostock)*

Monday

OM_BB_2

Oral session

Short presentation

Behavioural Biology, Hörsaalgebäude Hindenburgplatz 10-12, H2

Session 2

Chair: Klaudia Witte (Bielefeld)

- 13:30-13:45 Antipredatory behaviour and temporal risk allocation: Foraging in risk-homogeneous landscapes
OM_BB_2.01 *Jana A Eccard, Thilo Liesenjohann (Bielefeld)*
- 13:45-14:00 Optimal Foraging in Landscapes of Homogeneous Fear
OM_BB_2.02 *Thilo Liesenjohann, Jana Eccard (Bielefeld)*
- 14:00-14:15 About competing males and communal females
OM_BB_2.03 *Kathrin Lüttmann, Susanne Ranft, Matthias Asher, Norbert Sachser (Münster)*
- 14:15-14:30 Influence of kinship on shoaling decisions of sticklebacks
OM_BB_2.04 *Joachim Frommen, Theo Bakker (Bonn)*
- 14:30-14:45 UV vision and shoal choice in three-spined sticklebacks
OM_BB_2.05 *Ricarda Modarressie, Ingolf P. Rick, Theo C. M. Bakker (Bonn)*
- 14:45-15:00 Hidden layers of social structure and its genetic implications in breeding colonies of the Galapagos sea lion
OM_BB_2.06 *Jochen B. W. Wolf, Diethard Tautz, David Mawdsley, Richard James, Fritz Trillmich (Berlin)*

Monday

OM PH 2

Oral session

Short presentation

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 2

Chair: Martin Klingenspor (Marburg)

- 13:30-13:45 Do members of the NHE family play a role in transepithelial ammonia transport in the midgut of the tobacco hornworm *Manduca sexta*?
OM_PH_2.01 *Gunnar Bröhan, Anne-Kathrin Blässe, Henning Simon, Dirk Wehrauch (Osnabrück)*
- 13:45-14:00 Regulation of p27Kip1 Ubiquitinylation during G1/S Transition in Vertebrate Glandular Epithelial Cells – Involvement of pHi
OM_PH_2.02 *Anne-Katrin Rohlfing, Christian Müller, Jan-Peter Hildebrandt (Greifswald)*
- 14:00-14:15 Specific inhibition of sodium hyperabsorption in cystic fibrosis by antisense oligonucleotides
OM_PH_2.03 *Katja Sobczak, Julia Erdelkamp, Kristina Kusche, Wolf-Michael Weber (Münster)*
- 14:15-14:30 Different expression levels of ENaC in human nasal epithelium from CF and non-CF tissue
OM_PH_2.04 *Nadine Bangel, Christoph Dahlhoff, Katja Sobczak, Wolf-Michael Weber, Kristina Kusche (Münster)*
- 14:30-14:45 Expression of ENaC in *Xenopus laevis* oocytes is dependent on intracellular Na⁺
OM_PH_2.05 *Kristina Kusche, Andrei Segal, Ryszard Grygorczyk, Willy Van Driessche, Wolf-Michael Weber (Münster)*
- 14:45-15:00 Mechanosensitivity of Epithelial Na⁺ Channels (ENaC)
OM_PH_2.06 *Mike Althaus, Wolfgang Clauss, Martin Fronius (Giessen)*
- 15:00-15:30 Coffee Break

Monday

OM_NB_2

Oral session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 2

Chair: Volker Dürr (Bielefeld)

- 15:30-16:00 Evolution of brain design in Arthropoda
OM_NB_2.01 *Steffen Harzsch* (Ulm)
- 16:00-16:15 The elementary (pre-)nervous system reconsidered: pre-neuronal
coordination circuits in poriferans
OM_NB_2.02 *Michael Nickel* (Stuttgart)
- 16:15-16:30 Nitric oxide regulates neuronal regeneration in the locust embryo
OM_NB_2.03 *Michael Stern* (Hannover)
- 16:30-16:45 Development of microcircuits in the mushroom-body calyx of the female
honeybee brain
OM_NB_2.04 *Claudia Groh, Wolfgang Roessler* (Würzburg)
- 16:45-17:00 Visual floral guides constrain discrimination learning in bumblebees
(*Bombus terrestris*)
OM_NB_2.05 *Maike Pohl, Klaus Lunau* (Düsseldorf)

Monday

OM_EB_2

Oral session

Short presentation

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, H2

Session 2

Chair: Sierk Engels (Bonn)

- 15:30-15:45
OM_EB_2.01 Conservation genetics of the European fire-bellied toad (*Bombina orientalis*)
J. Susanne Hauswaldt, Christiane Schröder, Sebastian Lippold, Heiko Stuckas, Ralph Tiedemann (Potsdam)
- 15:45-16:00
OM_EB_2.02 Ancestry and adaptive radiation: case studies in lacustrine gastropods from the riverine perspective
Matthias Glaubrecht, Ellen Strong, Frank Köhler, Thomas von Rintelen (Berlin)
- 16:00-16:15
OM_EB_2.03 Mammalian monogamy is not controlled by a single gene
Gerald Heckel, Sabine Fink, Laurent Excoffier (Bern, Switzerland)
- 16:15-16:30
OM_EB_2.04 Correlates of individual fitness in female European rabbits
Heiko G. Rödel, Cornelia Kraus, Dietrich von Holst (Bayreuth)
- 16:30-16:45
OM_EB_2.05 An Estimate of the Frequency of Positive Selection in Natural Populations of the House Mouse
Meike Thomas, Diethard Tautz (Köln)

Monday

OM MO 2 Oral session

Short presentation

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, H4

Chair: Oliver Betz (Tübingen)

- 15:30-15:45 Alias® Maya 6.0™– A simple method for 3-dimensional reconstruction based on histo-logical sections, using the example of the nervous and circulatory system of *Prosarthria teretirostris* (Caelifera, Proscopiidae)
OM_MO_2.01 *Eileen Baum* (Jena)
- 15:45-16:00 The origin of the crustacean paragnaths
OM_MO_2.02 *Carsten Wolff, Gerhard Scholtz* (Berlin)
- 16:00-16:15 Morphology of the ventral nerve cords in Onychophora and the evolution of serotonergic neurons in arthropods
OM_MO_2.03 *Georg Mayer, Steffen Harzsch* (Berlin)
- 16:15-16:30 Structure and mechanical properties of the adhesive pads in *Carausius morosus*
OM_MO_2.04 *Ingo Scholz* (Aachen)
- 16:30-16:45 Protonephridial morphology of *Neodasys chaetonotoideus* (Gastrotricha: Chaetonotida) and the ground pattern of Gastrotricha
OM_MO_2.05 *Alexander Kieneker, Wilko H. Ahlrichs, Pedro Martínez Arbizu* (Oldenburg)

Monday

Chancengleichheit

Badestraße 9, Hörsaal HB9

Chair: . Dorothea Brückner

AK Chancengleichheit Biologie

- 15:00-15:05 Begrüßung und Einführung in das Symposium
Dr. Dorothea Brückner (Bremen, AKCB)
- 15:05-15:35 Chancengerechtigkeit für Männer und Frauen in der Physik !
Die Situation von Physikerinnen in Deutschland
Prof. Monika Bessenrodt-Weberpals (Hamburg, AKCP)
Deutsche Physikalische Gesellschaft - DPG
- 15:35-16:05 Netzwerkmöglichkeiten und -aktivitäten über
CEWS und EPWS (European Platform of Women Scientists)
Isabel Beuter, MA (Bonn, CEWS)
CEWS - Center of Excellence Women in Science
- 16:05-16:35 DFG - Deutsche Forschungsgemeinschaft
Dr. Sonja Ihle (Bonn, DFG)
DFG und Chancengleichheit
- 16:35-17:05 Gleichstellung - ein Problem der Biologie? Das Beispiel Münster
Dr. Bettina Zeis (Münster)
Gleichstellungsbeauftragte Biologie, Universität Münster

Monday

SZH 55, Kursraum H55, H1-H4, H55, HB9

17:15-18:30 DZG General Meeting

Monday

Hörsaalgebäude Hindenburgplatz 10-12, Foyer

18:30-21:00 Poster session with beer and sausages

PM BB 1

Poster session

Monday 18.09.2006, Behavioural Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

- PM_BB_1.01** Effects of hibernation on memory in Alpine marmots (*Marmota marmota*)
Laura Clemens, Gerhard Heldmaier, Cornelia Exner (Marburg)
- PM_BB_1.02** Interaction in the tube: Interspecific competition, life history, and behaviour among subterranean small mammals
Monique Ellmer, Jana Eccard (Bielefeld)
- PM_BB_1.03** Soil temperature as organizer of digging activities in the leaf-cutting ant *Acromyrmex lundii*
Jenja Kronenbitter, Martin Bollazzi, Flavio Roces (Würzburg)
- PM_BB_1.04** Genetic analyses of social breeding, multiple paternity, brood parasitism and geographic structure in the Jamaican bromeliad crab *Metopaulias depressus* (Brachyura: Sesarmidae)
Luise Heine, Jürgen Heinze, Christoph D. Schubart (Regensburg)
- PM_BB_1.05** Influences of an environmental enrichment feeding devices on the behaviour of Great Apes in the Zoo Frankfurt (Main)
Verena Behringer, Tanja Mühl, Michaela Zöllmann, Dieter Selzer, Wolfgang Clauß (Giessen)
- PM_BB_1.06** Self-regulation of a European wild rabbit population by structural processing
Paul Kaetzke, Joachim Künkele, Ronald Schönheiter, Hanne Schrutka, Dietrich von Holst (Bayreuth)
- PM_BB_1.07** Behavioral Phenotyping of a Murine AD-Model in a Semi-Naturalistic Environment
Lars Lewejohann, Nadine Reefmann, Philipp Widmann, Norbert Sachser (Münster)
- PM_BB_1.08** The Novel Object Task to Test Gene x Environment Interaction in a Murine Model of Alzheimer's Disease
Nicole Görtz, Manuel Tomm, Oliver Ambrée, Lars Lewejohann, Norbert Sachser (Münster)
- PM_BB_1.09** The behavioural, hormonal and reproductive consequences of a prenatal unstable social environment: pathology or adaptation
Nadine Samson, Christiane Wilzeck, Kristina Kemme, Sylvia Kaiser, Norbert Sachser (Münster)

Monday

PM_BB_1

Poster session

Behavioural Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

- PM_BB_1.10** Psychosocial stress during pregnancy: the influence on immune parameters, serum corticosterone, and anxiety behavior in adult male Long-Evans rat offspring
Alexander Götz, Volker Stefanski (Bayreuth)
- PM_BB_1.11** Incest avoidance in *Tupaia belangeri*: Physiological and behavioral consequences in paired siblings from the same and different litters
Katja Woidacki, Frank Uhl, Dietrich von Holst (Bayreuth)
- PM_BB_1.12** Benefits of sibling presence on social environment and reproduction of female European rabbits
Anett Starkloff, Heiko G. Rödel, Dietrich von Holst (Bayreuth)
- PM_BB_1.13** Male choice in laboratory and wild golden hamsters (*Mesocricetus auratus*)
Karsten Nasdal, Peter Fritzsche, Karsten Neumann, Rolf Gattermann (Halle)
- PM_BB_1.14** UV makes female sticklebacks more attractive as mates
Ingolf P. Rick, Theo C. M. Bakker (Bonn)
- PM_BB_1.15** Approach meets Refusal - How the emotional state influences the acoustic structure of communication calls in tree shrews (*Tupaia belangeri*)
Simone Schehka, Elke Zimmermann (Hannover)
- PM_BB_1.16** Pair Bonding in Tree Shrews: Possible Effects of Central Oxytocin and Vasopressin
Peggy Schneider, Oliver Bosch, Inga, D. Neumann, Dietrich von Holst (Bayreuth)
- PM_BB_1.17** A unique retina: relevance for visual detection in the weakly electrical fish
Meik Landsberger, Gerhard von der Emde (Bonn)
- PM_BB_1.18** Detection of dipole stimuli by the oscar, *Astronotus ocellatus*
Ines E. Nauroth, Joachim Mogdans (Bonn)
- PM_BB_1.19** Relevance of rhythm and frequency for contact call classification in the Indian False Vampire bat.
Simone Janßen, Sabine Schmidt (Hannover)
- PM_BB_1.20** Anal gland secretion of the E. Mink *Mustela lutreola*
Nicolai Meyer, E. Peters, I. Behrmann, N. Finger

Monday

PM_EB_1

Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Molecular Evolution

- PM_EB_1.01** Frequency of diploid males in populations of Panamanian orchid bees and the question of their reproductive potential
Carola Bach, Thomas Eltz (Düsseldorf)
- PM_EB_1.02** Comparative rates of molecular evolution in mammals
Bininda-Emonds, Olaf (Jena)
- PM_EB_1.03** Make do and mend: Diversification of “old” lysozymes and the evolution of “new” immune effector molecules in *Caenorhabditis elegans*
Claudia Boehnisch, Thomas Roeder, Jonathan Ewbank, Nico Michiels, Hinrich Schulenburg (Tübingen)
- PM_EB_1.04** Sex pheromones in the wasp spider *Argiope bruennichi*
Sebastian Funke, Stephan Goller, Stefan Schulz, Gabriele Uhl (Bonn)
- PM_EB_1.05** Social organization affects adaptive molecular evolution
Martin Hasselmann, Martin Beye (Düsseldorf)
- PM_EB_1.06** Paternal introgression in the Amazon molly, *Poecilia Formosa*
Kathrin P. Lampert, Dunja K. Lamatsch, Manfred Schartl (Würzburg)
- PM_EB_1.07** In search of speciation genes in haplo-diploid wasps: analysis of marker transmission ratio distortion in *Nasonia* hybrids
Oliver Niehuis, Juergen Gadau (Tempe, Arizona, USA)
- PM_EB_1.08** The gene of *Aplysia californica* hemocyanin: “A paradigm of intron evolution”
Klaus Streit, Bernhard Lieb (Mainz)
- PM_EB_1.08** What makes a queen - Molecular basis for the reproductive division of labor in a lower termite
Tobias Weil, Michael Rehli, Judith Korb (Regensburg)

Monday

PM_EB_1

Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Phylogeny

- PM_EB_1.10** On the phylogenetic position of Myzostomida (Protostomia) – an analysis of mitochondrial genome data
Christoph Bleidorn, Igor Eeckhaut, Michel Milinkovitch, Lars Podsiadlowski, Ralph Tiedemann (Potsdam)
- PM_EB_1.11** Molecular biogeography in the East-Mediterranean area as revealed from the phylogeny of the cave cricket genus *Troglophilus* (Orthoptera, Rhaphidophoridae)
Valerio Ketmaier (Potsdam)
- PM_EB_1.12** Phylogenetic relationships among freshwater crabs of Sulawesi and possible introgression of mitochondrial DNA in sympatric lake species
Peter Koller, Christoph Schubart (Regensburg)
- PM_EB_1.13** Early evolution of keratins in ray finned fish: Keratin catalog, expression patterns and sequences in the gar *Lepisosteus oculatus*
Sebastian Neumann, Michael Schaffeld (Mainz)
- PM_EB_1.14** A novel and ancient group of type I keratins in bichir, sturgeon and gar: insights into the evolution of vertebrate type I keratins and the early evolution of ray finned fish
Michael Schaffeld, Mark Haberkamp, Simon Höffling, Sonja Schätzlein, Sebastian Neumann (Mainz)

Monday

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Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Life history

- PM_EB_1.15** Coping with cardenolides in host plants: How many tricks are there to evolve tolerance or resistance?
Susanne Dobler, Estelle Labeyrie, Margarete Mroschkowski, Anurag Agrawal (Hamburg)
- PM_EB_1.16** Altitudinal life-history variation and temperature stress resistance in Copper butterflies
Klaus Fischer, Isabell Karl (Bayreuth)
- PM_EB_1.17** An ESS model for the evolution of dimorphic development strategies in the butterfly *Maculinea rebeli*, a social parasite of *Myrmica* ant colonies
Thomas Hovestadt, Oliver Mitesser, Graham Elmes, Jeremy Thomas, Michael Hochberg (Würzburg)
- PM_EB_1.18** Immune function as the maintaining trait in colour polymorph female damselflies?
Gerrit Joop (Zürich, Switzerland)

Monday

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Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Sexual Selection

- PM_EB_1.19** A secondary sex trait under construction: age- and nutrition-related changes in the mating potential of a scorpionfly
Sierk Engels, Klaus Peter Sauer (Bonn)
- PM_EB_1.20** Female mating frequency and female mate choice in the scorpionfly *Panorpa germanica*, L. (Mecoptera, Panorpidae)
Dagmar Kock, Klaus Peter Sauer (Bonn)
- PM_EB_1.21** Opportunistic mating behaviour in an obligate parthenogenetic bushcricket
Gerlind U.C. Lehmann (Berlin)
- PM_EB_1.22** Not all *Panorpa* scorpionfly mating systems are characterised by resource defense polygyny
Merle Missoweit, Klaus Peter Sauer (Bonn)
- PM_EB_1.23** Ultimate Causes for Mate Choice Decisions in Tree Shrews
Claus Oppelt, Dietrich von Holst (Bayreuth)
- PM_EB_1.24** The secretory male head structure in the dwarf spider *Oedothorax retusus*: effects on mating and paternity?
Nadja Richter, Jean-Pierre Maelfait, Gabriele Uhl (Bonn)
- PM_EB_1.25** The signal function of trilled songs in nightingales
Rouven Schmidt, Hansjörg P. Kunc, Valentin Amrhein, Marc Naguib (Bielefeld)
- PM_EB_1.26** The invisible fight - sperm competition in the scorpionfly *Panorpa communis*
Barbara W. Siegmund, K. P. Sauer (Bonn)
- PM_EB_1.27** Nestmate or stranger - under which conditions are burying beetles accepted as breeding partners?
Sandra Steiger, Josef K. Müller (Freiburg)
- PM_EB_1.28** Social information and mate choice in the zebra finch *Taeniopygia guttata*
Klaudia Witte, Côté Kimberly-Ann, Giraldeau Luc-Alain (Bielefeld)
- PM_EB_1.29** Genetic Aspects of Pair Formation in Tree Shrews (*Tupaia belangeri*)
Rebecca Wutzler, Tabea Mann, Antje Rahnfeld, Diana Pflücke, Dietrich von Holst (Bayreuth)

Monday

PM_EB_1

Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Speciation

- PM_EB_1.30** Hardly known, but soon gone: Freshwater gastropods from Central and northern South America
Maria Gómez, Thomas von Rintelen, Matthias Glaubrecht (Berlin)
- PM_EB_1.31** Adaptations during speciation via host-plant evolution.
Jes Johannesen, Thorsten Diegisser (Mainz)
- PM_EB_1.32** Population genetics of the rock prawn *Palaemon elegans* (Decapoda: Palaemonidae) along the European coast
Christoph D. Schubart, Silke Reuschel, J.A. Cuesta (Regensburg)
- PM_EB_1.33** Specificity of sex-induction in the *Brachionus plicatilis* and *Brachionus calyciflorus* species complexes (Monogononta, Rotifera)
Claus-Peter Stelzer (Mondsee, Austria)
- PM_EB_1.34** Mechanisms controlling interspecies gene flow in Baltic *Mytilus* populations (Bivalvia, Mytilidae)
Heiko Stuckas, Kathleen Stoof, Humberto Quesada, Ralph Tiedemann (Potsdam)
- PM_EB_1.35** Morphology versus mitochondrial and nuclear data: contrasting patterns in an ancient lake radiation of viviparous freshwater snails on the Indonesian island Sulawesi
Thomas von Rintelen, Matthias Glaubrecht (Berlin)
- PM_EB_1.36** Speciation, radiation, and phylogeny of the bush cricket genus *Poecilimon* FISCHER, 1853
Berit Ullrich, Klaus Reinhold, Bernhard Misof (Bonn)
- PM_EB_1.37** The evolution of landlocked species in the Southeast Asian freshwater shrimp *Caridina* (Decapoda, Atyidae): a contribution to the biogeography of Sulawesi, Indonesia
Kristina Zitzler, Thomas von Rintelen, Timothy Page, Matthias Glaubrecht (Berlin)

Monday

PM EB 1

Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Population genetics

- PM_EB_1.38** Population genetics of the endangered freshwater crab *Potamon fluviatile* in Italy
Ruth Jesse, Christoph D. Schubart, Sara Fratini (Regensburg)
- PM_EB_1.39** Population genetic studies of the lemon shark, *Negaprion brevirostris*: a comparison of different locations in the western Atlantic with emphasis on the Belize population
Claudia Junge, Samuel H. Gruber, Kevin A. Feldheim, Demian D. Chapman, Ellen K. Pikitch (Rostock)

Monday

PM_EB_1

Poster session

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Adaptions/Sociality

- PM_EB_1.40** Policing in the clonal ant *Platythyrea punctata*
Katrin Kellner, Elisabeth Brunner, Jürgen Heinze (Regensburg)
- PM_EB_1.41** Host-parasite coevolution: How a nematode host affects evolution of its microparasite
Carsten Makus, Rebecca Schulte, Barbara Hasert, Hinrich Schulenburg (Münster/Tübingen)
- PM_EB_1.42** How predator type shapes the occurrence of a morphological antipredator trait.
Dirk Johannes Mikolajewski (Leuven, Belgium)
- PM_EB_1.43** Genetic evidence for phenotypic plasticity in coloration and size in *Xantho poressa* (Crustacea: Brachyura:), with new results on the ecology of this species
Silke Reuschel, Christoph Schubart (Regensburg)

Monday

PM_DB_1

Poster session

Developmental Biology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

- PM_DB_1.01** Pattern of Muscle Differentiation during Oligochaete Embryogenesis
Annette Bergter, Achim Paululat (Osnabrück)
- PM_DB_1.02** Myogenesis in the polychaet *Platynereis dumerilii*
Tihana Tasic, Monika C. M. Müller (Osnabrück)
- PM_DB_1.03** *Drosophila* heart differentiation in kuzbanian mutants studied by a hand-GFP reporter line
Stefanie Albrecht, Julia Sellin, Achim Paululat (Osnabrück)
- PM_DB_1.04** Alteration of haemocyte populations during development of the tobacco hornworm, *Manduca sexta*, analysed by using flow cytometry
Anke Müller, Silvia Geuenich, Tina Trenczek (Giessen)
- PM_DB_1.05** Cell fate decisions in the developing *Drosophila melanogaster* mesoderm
Maik Drechsler, Julia Sellin, Achim Paululat (Osnabrück)
- PM_DB_1.06** Intercellular communication between germ-line and soma cells during *Drosophila* oogenesis: localization of innexins 1 and 2 and inhibition of gap-junctional communication by microinjected innexin antibodies
Jennifer Zimmermann, Johannes Bohrmann (Aachen)
- PM_DB_1.07** Expression of ANTP genes in regenerating of *Trichoplax adhaerens*, Placozoa
Susanne Becker, Gesine Fleischmann, Michael Eitel, Bernd Schierwater (Hannover)
- PM_DB_1.08** Notes on embryonic development of *Trichoplax adhaerens* (Placozoa)
Michael Eitel, Bernd Schierwater (Hannover)
- PM_DB_1.09** Naupliar Development of Remipedia (Crustacea)
Mario Hönemann, Stefan Koenemann, Christoph Held, Frederick R. Schram, Armin Bloechl (Hannover)

Monday

PM_NB_1

Poster session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Sensorik

- PM_NB_1.01** Characterization of Neurons in the Nucleus lateralis of *Gnathonemus petersii*
Timo Röver, Gerhard von der Emde, Jacob Engelmann (Bonn)
- PM_NB_1.02** How electrosensitive neurons of the ELL encode information about shape and material of nearby objects.
Michael Metzger, Jacob Engelmann, Gerhard von der Emde (Bonn)
- PM_NB_1.03** Hyperacuity in barn owls
Hermann Wagner, Katrin Goebbels, Wolf Harmening (Aachen)
- PM_NB_1.04** Response characteristics of infrared processing single units in the Tectum opticum of the rattlesnake *Crotalus atrox*
Tobias Kohl, Guido Westhoff (Bonn)
- PM_NB_1.05** Infrared sensitive regions in the dorsal Cortex of rattlesnakes (*Crotalus atrox*)
Astrid Becker, Guido Westhoff (Bonn)
- PM_NB_1.06** The Grueneberg ganglion - a novel chemosensory organ in the nose
Jörg Fleischer, Karin Schwarzenbacher, Nicole Hass, Stefanie Besser, Heinz Breer (Stuttgart)
- PM_NB_1.07** Neuromodulation in olfactory centers of the ant *Camponotus floridanus*: serotonin and NO
Christine Ziegler, Christina Zube, Sebastian Kirschner, Wolfgang Rössler (Würzburg)
- PM_NB_1.08** Characterization of pheromone receptors and binding proteins from moths
Jürgen Krieger, Thomas Gohl, Ewald Große-Wilde, Heinz Breer (Stuttgart)
- PM_NB_1.09** Structure and function of the complex tibial organ of the Gryllacridid *Ametrus tibialis*, an atympanate Ensiferan (Gryllacrididae: Orthoptera)
Johannes Strauss, Reinhard Lakes-Harlan (Giessen)
- PM_NB_1.10** PERIOD-immunoreactivity in the antenna of the hawkmoth *Manduca sexta*
Julia Schuckel, Kathy Siwicki, *Monika Stengl* (Marburg)

Monday

PM_NB_1

Poster session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Motorik

- PM_NB_1.11** Coordination of myotomal and fin motoneuron activity in the lamprey spinal cord
Tim Mentel, Lorenzo Cangiano, Sten Grillner, *Ansgar Büschges* (Köln)
- PM_NB_1.12** Auditory Input to Brainstem Inter- and Motor-Neurons in Anurans
Wolfgang Walkowiak (Köln)
- PM_NB_1.13** A modified Slippery Surface Setup with Optomotor Stimulation and Electrical Monitoring of Tarsal Contact to Study Stick Insect Walking
Matthias Gruhn, Oliver Hoffmann, Michael Dübbert, Hans Scharstein, *Ansgar Büschges* (Köln)
- PM_NB_1.14** Pharmacological analysis of tonic input to leg motoneurons during walking in stick insects
Sandra Westmark, Anke Borgmann, *Ansgar Büschges*, *Joachim Schmidt* (Köln)

Monday

PM_NB_1

Poster session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Zelluläre Neurobiologie

- PM_NB_1.15** Axon-glia interactions mediated by purinoceptors in the mouse olfactory system
Michael Döngi, Anne Rieger, Joachim W. Deitmer, Christian Lohr (Kaiserslautern)
- PM_NB_1.16** A novel communication mechanism between axons and glial cells in the insect olfactory system
Sandra Hartl, Andrea Hirsekorn, Christian Lohr (Kaiserslautern)
- PM_NB_1.17** Application of cAMP mimicks the effects of pigment-dispersing factor on the electrical activity of circadian clock neurons in the cockroach *Leucophaea maderae*
Niko Funk, Nils-Lasse Schneider, Monika Stengl (Marburg)

Monday

PM_NB_1

Poster session

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

ZNS & Verhalten

- PM_NB_1.18** Comparative mass spectrometric profiling of neurohemal organs from different species of the genus *Drosophila*
Anton Gorbashov, Christian Wegener (Marburg)
- PM_NB_1.19** 3D reconstruction of the *Tribolium* brain: a tool to study developmental and adult plasticity
David Dreyer, Stefan Dippel, Basil el Jundi, Wolf Huetteroth, Joachim Schachtner (Marburg)
- PM_NB_1.20** Staging of pupal development, and brain metamorphosis of the red flour beetle *Tribolium castaneum*
Stefan Dippel, David Dreyer, Wolf Huetteroth, Joachim Schachtner (Marburg)
- PM_NB_1.21** Variability of the spitting behaviour of spitting cobras
Stephanie de Pury, Guido Westhoff, Horst Bleckmann (Bonn)

Monday

PM_EC_1

Poster session

Ecology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Insect behaviour

PM_EC_1.01 Ants running at different inclinations: postural adaptations in the sagittal plane
Tom Weihmann, Tobias Seidl, Rüdiger Wehner, Reinhard Blickhan (Jena)

PM_EC_1.02 Recipes for Pollen Breads
Julia Budde, Klaus Lunau (Düsseldorf)

Plant Insect – chem.ecology

PM_EC_1.03 Secondary plant products influence the feeding behaviour of a subterranean termite
Stefan Gross, Manfred Kaib (Bayreuth)

PM_EC_1.04 Does mother know best? - Food-dependent performance and defence against predators of a herbivorous sawfly
Katja Arand, Caroline Müller (Würzburg)

Tritrophic – chem.-ecology

PM_EC_1.05 Host localisation of *Trichogramma cacoeciae* Marchal (Hymenoptera: Trichogrammatidae), egg- parasitoid of the grapevine moth *Lobesia botrana* Den. & Schiff. (Lepidoptera: Tortricidae)
Cornelia Rüdiger, Thomas Schmitt (Freiburg)

Tritrophic - biodiversity

PM_EC_1.06 The effect of biodiversity on trophic interactions
Wolfgang Weisser, C. Scherber, A. Weigelt (Jena)

Biodiversity - aquatic ecology

PM_EC_1.07 Detection of food preference with PCR-based techniques in tardigrades
Ralph O. Schill, K. Ingemar Jönsson (Stuttgart)

Monday

PM_NB_1

Poster session

Ecology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

aquatic ecology

PM_EC_1.08 Thermal tolerance limits and heat-shock (Hsp70) response in the common mediterranean sponges *Chondrilla nucula* and *Axinella polypoides*
Ralph O. Schill, Franz Brümmer (Stuttgart)

PM_EC_1.09 Impact of the hurricane Wilma on diversity and distribution of the reef fish family Pomacentridae on the coast of Habana City, Cuba
Mirko Bögner, Consuelo Aquilar-Betancourt, Gaspar González-Sansón, Dietrich von Holst (Bayreuth)

aquatic ecology - coexistence

PM_EC_1.10 Factors explaining coexistence of amphipods in a temporary stream
Mareike Trippe, Alexander Meyer, Elisabeth I. Meyer, Michael Zeidler (Münster)

mammal - coexistence

PM_EC_1.11 Preliminary findings of a comparative radio-tracking study of two sympatric Canidae, the red fox (*Vulpes vulpes*) and the raccoon dog (*Nyctereutes procyonoides*)
Hinrich Zoller (Rostock)

diverse

PM_EC_1.12 Comparative Investigations of the Cephalic Sensory Organs in Opisthobranchia
Sid Staubach, Annette Klussmann-Kolb (Frankfurt)

Monday

PM MO 1

Poster session

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Vertebrates

- PM_MO_1.01** Array morphology of the lateral line in goldfish (*Carassius auratus*)
Anke Schmitz, Horst Bleckmann, Joachim Mogdans (Bonn)
- PM_MO_1.02** Morphometric characterization of wings and feathers of barn owls and pigeons
Thomas Bachmann, Werner Baumgartner, Hermann Wagner (Aachen)
- PM_MO_1.03** Fibre type distribution in the paravertebral musculature of bipedal rodents
Anja Büscher, Martin S. Fischer, Nadja Schilling (Jena)
- PM_MO_1.04** Pseudo-4D visualization of a flatfish head during metamorphosis
Martin Heß, Petra Koch (München)
- PM_MO_1.05** Scanning electrical images: Electrofoveal regions on the skin of a weakly electric fish
Michael Hollmann, Gerhard von der Emde (Bonn)

Monday

PM MO 1

Poster session

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Euarthropoda

- PM_MO_1.06** The musculature of the tardigrade *Milnesium tardigradum*
Juliane Kulesa, Andreas Schmidt-Rhaesa, Birgen Rothe (Bielefeld)
- PM_MO_1.07** Phylogeny of Astacida: playing another round with characters?
Tino Pabst, Gerhard Scholtz (Berlin)
- PM_MO_1.08** What was the ancestral visual organ in arthropods? Implications from structure, development, and innervation of the onychophoran eyes
Georg Mayer (Berlin)
- PM_MO_1.09** Miniaturisation imprints in arthropods: light and electron microscopical reconstruction of the body of *Polyxenus lagurus* (Diplopoda: Polyxenidae)
Andy Sombke, Carsten H.G. Müller (Rostock)
- PM_MO_1.10** Synchrotron- μ CT-Techniques in Arthropod Morphology
Daniela Weide, Paavo Bergmann, Sebastian Schmelzle, Oliver Betz (Tübingen)

Monday

PM MO 1

Poster session

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Others

- PM_MO_1.11** Ultrastructural studies on the development of the nuchalorgan of *Platynereis dumerilii* (Polychatea, Nereidae)
Henrike Schmidtberg, Adriaan Dorresteijn (Giessen)
- PM_MO_1.12** A comparative immunohistochemical study of the cephalic sensory organs in Opisthobranchia (Mollusca, Gastropoda)
Simone Faller (Frankfurt a. Main)
- PM_MO_1.13** A comparative ultrastructural investigation of the cephalic sensory organs in Opisthobranchia (Mollusca, Gastropoda)
Katrin Göbbeler (Frankfurt a. Main)
- PM_MO_1.14** Comparison of the architecture of the nervous system in Gastrotricha
Birgen Holger Rothe, Andreas Schmidt-Rhaesa (Bielefeld)
- PM_MO_1.15** Muscular architecture of the meiobenthic priapulid *Tubiluchus troglodytes*
Andreas Schmidt-Rhaesa, Birgen Holger Rothe, M. Antonio Todaro (Bielefeld)
- PM_MO_1.16** The anatomical structure of mormyromasts electroreceptor organs from three skin regions of the mormyrid fish *Gnathonemus petersii*
Monique Amey, Gerhard von der Emde (Bonn)

Monday

PM MO 1

Poster session

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Arachnida

- PM_MO_1.16** Ultrastructural aspects of oogenesis in *Pseudocellus boneti* (Ricinulei, Arachnida)
Giovanni Talarico, Gabriele Zeck-Kapp, José G. Palacios-Vargas, Gerd Alberti (Greifswald)
- PM_MO_1.17** Evolution of sperm aggregations in spiders (Araneae, Arachnida)
Peter Michalik (Greifswald)
- PM_MO_1.18** Book lungs of scorpions and the single terrestrialization of the ancestor of arachnids
Carsten Kamenz, Gerhard Scholtz (Berlin)
- PM_MO_1.19** Lightmicroscopic and ultrastructural characterization of the female genital system of solpugids (Arachnida, Solifugae)
Anja E. Klann, Alexander V. Gromov, Alfredo V. Peretti, Gerd Alberti (Greifswald)

Monday

PM_ZS 1

Poster session

Zoological Systematics, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

- Neuromuscular system of ctenostome bryozoan larvae and metamorphic stages examined by fluorescence staining and cLSM
PM_ZS_1.01 *Alexander Gruhl* (Berlin)
- Missbrauch des Impact Factors – eine Fessel für Taxonomen und Systematiker
PM_ZS_1.02 *Anna K. Hundsdoerfer*, Christian Schmidt, Nicole S. Rogalla (Dresden)
- Ultrastructural characterization and molecular systematics of endosymbiotic bacteria of the reed beetle genus *Macroplea* Samouelle, 1819 (Coleoptera: Chrysomelidae, Donaciinae)
PM_ZS_1.03 *Gregor Kölsch*, Corinna Matz, Bo Vest Pedersen (Hamburg)
- Assessing the Utility of New Nuclear Protein-Coding Genes in Lophotrochozoa Phylogeny
PM_ZS_1.04 *Maximilian Nesnidal*, Frauke Fisse, Janina Dordel, Günther Purschke, Torsten Struck (Osnabrück)
- The phylogenetic position of Onychophora as deduced from EST sequences
PM_ZS_1.05 *Falko Roeding*, Silke Hagner-Holler, Michael Kube, Richard Reinhardt, Thorsten Burmester (Mainz)
- Comparative analysis of land snail radiations on Crete
PM_ZS_1.06 *Jan Sauer*, Bernhard Hausdorf (Hamburg)
- Restriction fragment analysis of the ribosomal DNA of Heterotardigrada and Eutardigrada for species identification
PM_ZS_1.07 *Ralph O. Schill*, Franz Brümmer, Günther Steinbrück (Stuttgart)
- Giant-Pill Millipede Phylogeny and Plate Tectonics (Diplopoda, Sphaerotheriida)
PM_ZS_1.08 *Thomas Wesener* (Bonn)
- Hemocyanin in Mantophasmatodea (Insecta, Pterygota)
PM_ZS_1.09 *Sabrina Simon*, Sven Sagasser, Bernd Schierwater, Heike Hadrys (Hannover)
- Comparative ultrastructure of larval musculature in tunicates and its phylogenetic implication
PM_ZS_1.10 *Andreas Kirbach*, Thomas Stach (Berlin)
- Phylogeny of extant Tunicata and its bearing on chordate evolution
PM_ZS_1.11 Thomas Stach (Berlin)
- Electron microscopic analysis of the ontogeny of the appendicularian *Oikopleura dioica* (Tunicata, Chordata)
PM_ZS_1.12 *Jonas Winter*, Thomas Stach (Berlin)

Monday

PM PH 1

Poster session

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Respiratory Biology

- PM_PH_1.01** Attempts to crystallize the collar functional unit h of Keyhole Limpet Hemocyanin (KLH) for X-ray studies, and thermodynamic investigation of molecular substructure
Kay Büchler, Nadja Hellmann, Jürgen Markl, Heinz Decker, Elmar Jaenicke (Mainz)
- PM_PH_1.02** Characterisation of a hemoglobin co-existing with hemocyanin in the brachyuran crab *Carcinus maenas*
Beyhan Ertas, Thorsten Burmester (Mainz)
- PM_PH_1.03** Regulation of neuroglobin, cytoglobin and myoglobin in a hypoxia-tolerant mammal, the subterranean mole rat *Spalax ehrenbergi*
Frank Gerlach, Aaron Avivi, Thorsten Burmester, Eviatar Nevo, Thomas Hankeln (Hamburg)
- PM_PH_1.04** Temperature tolerance in the lugworm *Arenicola marina* - physiological and biochemical adaptations of the oxygen transport system
Nico Grüner, H.-U. Steeger, R. J. Paul (Münster)
- PM_PH_1.05** Keyhole limpet hemocyanin: Cloning of two cDNAs encoding 400 kDa polypeptides, and recombinant expression in insect cells
Ralf Dürr, Alisa Hanisch, Valesca Boisguérin, Wolfgang Gebauer, Bernhard Lieb (Mainz)
- PM_PH_1.06** *Biomphalaria glabrata* hemoglobin: Recombinant Expression and Molecular Phylogenetic Analysis
Bernhard Lieb, Stefanie Heinz, Sabrina Braun, Jürgen Markl (Mainz)
- PM_PH_1.07** Citrate synthase activity in *Daphnia magna* acclimated to different thermal and oxygen conditions
Anna Klute, Bettina Zeis, Rüdiger J. Paul (Münster)
- PM_PH_1.08** High resolution quaternary structure of *Nautilus pompilius* hemocyanin by cryo-electron microscopy, homology modeling and automated fitting
Christos Gatsogiannis, Arne Moeller, Frank Depoix, Ulrich Meissner, Jürgen Markl (Mainz)
- PM_PH_1.09** Observing “Respiration” at the Molecular Level: 3D-electron microscopy of *Nautilus pompilius* hemocyanin under different oxygenation states
Arne Moeller, Christos Gatsogiannis, Frank Depoix, Jürgen Markl, Ulrich Meissner (Mainz)
- PM_PH_1.10** Assessing the role of globins in mammalian cells
Stephanie Mitz, Holger Ulbrich, Thomas Hankeln, Thorsten Burmester (Mainz)
- PM_PH_1.11** Native and subunit molecular mass and quaternary structure of the haemoglobin from the primitive branchiopod crustacean *Triops cancriformis*
Hans-Ulrich Steeger, Ralph Pirow, Elmar Jaenicke, Robin Harris, Morgane Rousselot, Tobias Lamkemeyer (Münster)
- PM_PH_1.12** Change of thermal tolerance in the lugworm *Arenicola marina* – Physiology and behaviour
Astrid Wittmann, Mareike Schröer, Christian Bock, Hans-Otto Pörtner (Bremerhaven)

Monday

PM PH 1

Poster session

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Membrane Transport

- PM_PH_1.13** Effects of basolateral potassium channel blockers on Cl⁻ transport in native amphibian lung epithelia (*Xenopus laevis*)
Jens Berger, Wolfgang Clauss, Martin Fronius (Giessen)
- PM_PH_1.14** Molecular characterization and mRNA expression analysis of two lepidopteran NHE isoforms by semi-quantitative triplex RT-PCR
Anne-Kathrin Blässe, Gunnar Bröhan, Dirk Weihrauch (Osnabrück)
- PM_PH_1.15** Influences on the chloride secretion in human colon adenocarcinoma cell line HT-29/B6
Bianca Nießner, Katja Sobczak, Kristina Kusche, Wolf-Michael Weber (Münster)
- PM_PH_1.16** Molecular cloning of Na⁺/K⁺-ATPase α -subunits and its implication for bilaterian evolution
Elisabeth Paschke, Renata Kazperowski, Wolf-Michael Weber, Kristina Kusche (Münster)
- PM_PH_1.17** Functional differences between vertebrate and invertebrate amiloride-sensitive Na⁺ absorption
Katja Sobczak, Anne Willing, Nadine Bangel, Kristina Kusche, Wolf-Michael Weber (Münster)
- PM_PH_1.18** Molecular identification and mRNA expression analysis of a Rhesus-like ammonia transporter in the tobacco hornworm *Manduca sexta*.
Nancy Speck, Dirk Weihrauch (Osnabrück)
- PM_PH_1.19** Activation of the epithelial sodium channel by trypsin in *Xenopus laevis* oocytes
Kristina Kusche, Christina Börding, Wolf-Michael Weber (Münster)

Monday

PM_PH_1 Poster session

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Stress

- PM_PH_1.20** Evaluating the role of the neuronal MAP kinase JNK-1 in orientation behavior and thermotaxis
Alexander Heinick, Melanie Voss, Marc Wolf, Frank Nunes, Rüdiger Jörg Paul (Münster)
- PM_PH_1.21** Analysis of the thermal tolerance of zooplankton organisms based on cellular redox state and NADH fluorescence
Kathrin Kluge, Rüdiger J. Paul (Münster)
- PM_PH_1.22** Temperature tolerance in the lugworm *Arenicola marina* - in vivo spectroscopy as an integrative measure of the borders of the temperature optimum range
Erik Laturnus, H.-U. Steeger, R. J. Paul (Münster)
- PM_PH_1.23** Temperature tolerance in the lugworm *Arenicola marina* - Ecology and behavioural responses
Volker Niessing, H.-U. Steeger, R. J. Paul (Münster)
- PM_PH_1.24** Interspecific comparison of temperature-related physiological properties in *Daphnia*
Olaf Pinkhaus, Susanne Schwerin, Ina Buchen, Rüdiger J. Paul (Münster)
- PM_PH_1.25** Investigation of thermal tolerance in *Chaoborus crystallinus* larvae
Marcin Prokopiak, Bettina Zeis, Ralph Pirow, Rüdiger J. Paul (Münster)
- PM_PH_1.26** Temperature tolerance in the lugworm *Arenicola marina* – protein biosynthesis and energy metabolism
Mareike Schröder, Christian Bock, Hans-Otto Pörtner (Bremerhaven)
- PM_PH_1.27** Physiological properties of *Daphnia*: seasonal changes within and differences between genotypes of one population
Susanne Schwerin, Bettina Zeis, Rüdiger J. Paul (Münster)
- PM_PH_1.28** Phenotypic plasticity in the acid tolerance of *Daphnia*
Anna Katharina Weber, Ralph Pirow (Münster)
- PM_PH_1.29** Change of thermal tolerance in the lugworm *Arenicola marina* – Physiology and behaviour
Astrid Wittmann, Mareike Schröder, Christian Bock, Hans-Otto Pörtner (Bremerhaven)
- PM_PH_1.30** Oxidative and thermal stress in the waterflea *Daphnia magna*
Sabine Zumbrägel, Bettina Zeis, Rüdiger J. Paul (Münster)

Monday

PM PH 1

Poster session

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Obesity

- PM_PH_1.31** Thyronamine - a novel hormone controlling glucose metabolism
Luzie Braulke, Martin Klingenspor, Gerhard Heldmaier (Marburg)
- PM_PH_1.32** Metabolic phenotyping of an overweight mouse line originated from ethyl-nitroso-urea (ENU) mutagenesis
Nicole Ehrhardt, Jan Rozman, Birgit Rathkolb, Gerhard Heldmaier, Martin Klingenspor (Neuherberg/Marburg)
- PM_PH_1.33** Estimation of the in vivo metabolic rate of adipose tissue in obese mice
Susanne Keipert, Jörn Wessels, Martin Klingenspor, Jan Rozman (Marburg)
- PM_PH_1.34** Comparative thermoregulatory properties of ATGL-KO (adipose triglyceride lipase knockout) and UCP-1-KO (uncoupling protein-1 knockout) mice exposed to moderate cold stress
Carola Meyer, Guenter Haemmerle, Gerhard Heldmaier, Rudolf Zechner, Martin Klingenspor (Marburg)
- PM_PH_1.35** Hepatic gene expression but not liver fat content in SWR/J and AKR/J mice differ after ten days of high-fat feeding
Andy Reuner, Jörn Weßels, Jan Rozman, Martin Klingenspor (Marburg)
- PM_PH_1.36** Tissue-specific lack of UCP3 leads to transcriptional down-regulation of lipogenic and lipolytic pathways
Kerstin Weber, Tobias Fromme, Christa von Praun, Lianxing Yang, Martin Klingenspor (Marburg)

Monday

PM PH 1

Poster session

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, Foyer

Diverse

- PM_PH_1.37** Effect of Taxol on Pancreas Tumour cells
Ilona Bredebusch, Wolfram Domschke, Jürgen Schnekenburger (Münster)
- PM_PH_1.38** E-learning, a tool for the qualification of students in the humane handling of experimental animals
Cornelia Exner, Nicole Steinberg, Gerhard Heldamaier (Marburg)
- PM_PH_1.39** Mass-strandings of spiny lobsters in South Africa – a lost resource?
Gerd Gäde, Lutz Auerswald (Rondebosch, South Africa)
- PM_PH_1.40** Cardenolide transport in *Chrysochus* leaf beetles
Peter Iglauer, Estelle Labeyrie, Susanne Dobler (Hamburg)
- PM_PH_1.41** Quantitative changes and distribution of astaxanthin in the South African spiny lobster, *Jasus lalandii*
Heather Marco, Given Matumba (Rondebosch, South Africa)
- PM_PH_1.42** Expression of a chimeric chitin synthase in *Saccharomyces cerevisiae*
Derek Meissner, Hans Merzendorfer (Osnabrück)
- PM_PH_1.43** A Fluorescence In Situ Hybridisation (FISH) approach to identify natural food organisms of *Caenorhabditis elegans*
Melanie Voss, Alexander Heinick, Marc Wolf, Frank Nunes, Rüdiger Jörg Paul (Münster)
- PM_PH_1.44** Structure-based analyses of the glyoxalase I from the malaria parasite *Plasmodium falciparum*
Henning Thomassen, Andrew Torda, Rolf D. Walter, Eva Liebau (Münster)
- PM_PH_1.45** Interaction of the Human Procollagen C-Proteinase with Procollagen
Carsten Wermter, Markus Höwel, Vera Hintze, Irene Yiallourous, Walter Stöcker (Mainz)
- PM_PH_1.46** The alpha and beta subunits of the metalloprotease meprin are expressed in separate layers of human epidermis, revealing different functions in keratinocyte proliferation and differentiation.
Christoph Becker-Pauly, Tatjana Walker, Heikp Traupe, Erwin E. Sterchi, Walter Stöcker (Mainz)
- PM_PH_1.47** The metalloprotease meprin in the zebrafish *Danio rerio*
André Schütte, Walter Stöcker, Christoph Becker-Pauly (Mainz)
- PM_PH_1.48** Ovastacin, a member of the hatching subfamily of astacin metallopeptidases
Christina Duhig, Sebastian Gornik, Frank Möhrlein, Walter Stöcker, Irene Yiallourous (Mainz)
- PM_PH_1.49** Structural and functional characterization of the pore-forming protein from the protozoan parasite *Acanthamoeba culbertsoni*
Marene Simanski, Rosa Herbst, Joachim Grötzinger, Matthias Leippe (Kiel)
- PM_PH_1.50** Downregulation of aquaporins 1 and 5 in nasal gland by osmotic stress in ducklings, *Anas platyrhynchos* – implications for the production of hypertonic fluid
Christian Müller, Mathias Sandler, Jan-Peter Hildebrandt (Greifswald)

Tuesday

LT 1

Plenary lecture

Tuesday 19.09.2006, Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Jan-Peter Hildebrandt (Greifswald)

Evolution and Ecological Aspects of Protein Families in Organisms:

08:30-09:30 "The heat shock response and adaptation to environmental stress"
LT_1.01 *Volker Loeschke* (University of Aarhus, Denmark)

09:30-10:30 Evolution of Na-K-ATPases
LT_1.02 *Jean-Daniel Horisberger* (University of Lausanne, Switzerland)

10:30-11:00 Coffee Break

Tuesday

ST 1

Symposium

Symposium „Molecular aspects of metabolism“

Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: Kristina Kusche (Münster)

- | | |
|---------------------------------|---|
| 11:00-11:20 ST_1_1.01 | Regulation of Energy Balance in Mammals <i>Martin Klingenspor</i> (Marburg) |
| 11:20-11:40 ST_1_1.02 | Chitin metabolism in insects <i>Hans Merzendorfer</i> (Osnabrück) |
| 11:40-11:55 ST_1_1.03 | Strain specific differences in open field behaviour are related to the development of obesity in young male mice <i>Deike Hesse, Mark Dunn, John Billingsley, Martin Klingenspor, Jan Rozman</i> (Marburg) |
| 11:55-12:10 ST_1_1.04 | A novel sugar transporter in <i>Drosophila melanogaster</i> <i>Heiko Meyer, Helmut Wiczorek</i> (Osnabrück) |
| 12:10-12:25 ST_1_1.05 | What hemocyanin tells about the phylogeny of the Polyplacophora, Cephalopoda, Gastropoda and protobranch bivalves. <i>Bernhard Lieb</i> (Mainz) |
| PM_EB_1.08 | The gene of <i>Aplysia californica</i> hemocyanin: “A paradigm of intron evolution” <i>Klaus Streit, Bernhard Lieb</i> (Mainz) |
| 12:30-13:30 | Lunch |

Tuesday

OT_NB 3

Oral session

Short presentation

Neurobiology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 3

Chair: Monika Stengl (Marburg)

- 13.30-13:45 Mapping complex olfactory learning tasks within the honeybee brain by procaine injections
OT_NB_3.01 *Bernd Grünewald, Aline Blunk, Jasmin Podufall, Martin Giurfa, Jean-Marc Devaud (Berlin)*
- 13:45-14.00 Processing of odor information in the ant antennal lobe
OT_NB_3.02 *Christina Zube, Jakob Neef, Christoph Kleineidam, Wolfgang Rössler (Würzburg)*
- 14:00-14:15 Biomechanics of active tactile sensing with an insect antenna
OT_NB_3.03 *Volker Dürr, Jan-Henning Dirks (Bielefeld)*
- 14:15-14:30 Calibration of a neuronal activated reactive microcircuit
OT_NB_3.04 *Jyotsna Pilli, Konrad Wiese (Hamburg)*
- 14:30-14:45 Functional Neuroanatomy of the rhinophore of *Archidoris pseudoargus*
OT_NB_3.05 *Adrian Wertz, Wolfgang Rössler, Malu Obermayer, Ulf Bickmeyer (Helgoland)*

Tuesday

OT_EB_3

Oral session

Short presentation

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, H4

Session 3

Chair: Gerrit Joop (Zürich, Switzerland)

- 13:30-13:45 Functional variation in sperm design of sticklebacks
OT_EB_3.01 *Theo C. M. Bakker, Michael Hollmann, Marc Zbinden (Bonn)*
- 13:45-14:00 Benefits of inbreeding in the cichlid *Pelvicachromis taeniatus*
OT_EB_3.02 *Timo Thünken, Sebastian Baldauf, Theo C. M. Bakker, Harald Kullmann (Bonn)*
- 14:00-14:15 Behavioral adaptations and genetic differentiation in an extremophile fish,
the cave molly, *Poecilia mexicana* (Poeciliidae, Teleostei)
OT_EB_3.03 *Martin Plath, Susanne Hauswaldt, Michael Tobler, Ingo Schlupp, Ralph Tiedemann (Potsdam)*
- 14:15-14:30 Disruptive colouration provides camouflage independent of background
matching
OT_EB_3.04 *Nina Stobbe, H. Martin Schaefer (Freiburg)*
- 14:30-14:45 Effects of nutritional conditions during early development on biometry and
mate choice in zebra finches (*Taeniopygia guttata*)
OT_EB_3.05 *Mariam Honarmand, Marc Naguib (Bielefeld)*

Tuesday

OT_BB_3

Oral session

Short presentation

Behavioural Biology, Hörsaalgebäude Hindenburgplatz 10-12, H2

Session 3

Chair: Lars Lewejohann (Münster)

- 13:30-13:45 Referential gestural communication in wild chimpanzees (*Pan troglodytes*)
OT_BB_3.01 *Simone Pika, John Mitani* ((St.Andrews,Fife,United Kingdom)
- 13:45-14:00 Coding the degree of aggression in the behavioural display and call structure
of the bat, *Megaderma lyra*
OT_BB_3.02 *Anna Bastian, Sabine Schmidt* (Hannover)
- 14:00-14:15 Communication among Euphausiid shrimps of krill a key to the success of
the species
OT_BB_3.03 *Torsten Fregin, Mufti Patria, Konrad Wiese* (Hamburg)
- 14:15-14:30 The influences of male senescence and female presence on sexual
cannibalism in an orb-weaving spider
OT_BB_3.04 *Stefan H Nessler, Jutta M Schneider* (Hamburg)
- 14:30-14:45 Regulation of behaviour in the ponerine ant *Harpegnathos saltator*
OT_BB_3.05 *Sebastian Schneider, Thomas Roeder, Jürgen Liebig* (Kiel)
- 14:45-15:00 Are repellent “scent-marks” actively released pheromones or passive
footprints: Experiments in an artificial flower array with bumblebees
OT_BB_3.06 *Jessica Wilms, Thomas Eltz* (Düsseldorf)

Tuesday

OT PH 3

Oral session

Short presentation

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 3

Chair: Thorsten Burmester (Hamburg)

- 13:30-13:45 Expression pattern and function of the *Caenorhabditis elegans* ABC-transporters MRP-2 and PGP-2
OT_PH_3.01 *Frank Nunes, Marc Wolf, Jörg Hartmann, Rüdiger J. Paul (Münster)*
- 13:45-14:00 Hypothalamic Gene Expression Profiling in a Mouse Model for Monogenic Obesity
OT_PH_3.02 *Jörn Weßels, Michaela Keuper, Jan Rozman, Birgit Samans, Martin Klingenspor (Marburg)*
- 14:00-14:15 Subtracting passive force from isometric force to estimate the active force-length relation of striated muscles can lead to large errors
OT_PH_3.03 *Christian Rode, Tobias Siebert, Reinhard Blickhan (Jena)*
- 14:15-14:30 Parameter estimation of muscles with pronounced parallel elastic component by nonlinear regression
OT_PH_3.04 *Tobias Siebert, Christian Rode, Heiko Wagner, Reinhard Blickhan (Jena)*
- 14:30-14:45 Inhibitory effects of a NMDA receptor antagonist on reproductive traits in *Bicyclus anynana* and *Gryllus bimaculatus*
OT_PH_3.05 *Thorin L. Geister, Mathias W. Lorenz, Klaus. H. Hoffmann, Klaus Fischer (Bayreuth)*
- 14:45-15:00 Extracellular matrix remodelling during insect metamorphosis
OT_PH_3.06 *Andreas Vilcinskas, Boran Altincicek, Marianne Wedde (Giessen)*
- 15:00-15:30 Coffee Break

Tuesday

OT_EC_2

Oral session

Short presentation

Ecology, Hörsaalgebäude Hindenburgplatz 10-12, H3

Session 2

Chair: Katrin Böhning-Gaese (Mainz)

- 15:30-15:45 Life history strategy and ecosystem impact of *Ochotona pallasi* in a mountain steppe, Mongolia
OT_EC_2.01 *Karin Nadrowski, Georg Miehe (Marburg)*
- 15:45-16:00 Spatial and temporal patterns of aquatic biodiversity in a temporary stream system
OT_EC_2.02 *Elisabeth Irmgard Meyer, Alexander Meyer, Sabine Baltzer, Martin Billen, Wolfgang H. Riss (Münster)*
- 16:00-16:15 Leaf age specific effects of UV on host plants determine preference and performance of a leaf beetle
OT_EC_2.03 *Kerstin Reifenrath, Caroline Müller (Würzburg)*
- 16:15-16:30 Co-evolutionary signalling system between herbivorous insects and plants?
OT_EC_2.04 *H. Martin Schaefer, Gregor Rolshausen (Freiburg)*
- 16:30-16:45 Chemical specificity of male fragrances in a community of Panamanian orchid bees:
How big is the euglossine fragrance space?
OT_EC_2.05 *Yvonne Zimmermann, Thomas Eltz (Düsseldorf)*
- 16:45-17:00 Defensive Secretions in Thysanoptera (Phlaeothripinae)
OT_EC_2.06 *Gunther Tschuch, Peter Lindemann, Gerald Moritz (Halle-Wittenberg)*

Tuesday

OT EB 4

Oral session

Short presentation

Evolutional Biology, Hörsaalgebäude Hindenburgplatz 10-12, H4

Session 4

Chair: Klaus Fischer (Bayreuth)

- 15:30-15:45 The role of maternal body size as an evolutionary constraint on egg size in
the tropical butterfly *Bicyclus anynana*
OT_EB_4.01 *Stephanie Bauerfeind, Klaus Fischer (Bayreuth)*
- 15:45-16:00 The molecular biogeography of the continental butterfly species *Erebia*
medusa in the Alps and in southeastern Europe
OT_EB_4.02 *Thomas Schmitt, Paul Müller (Trier)*
- 16:00-16:15 Food reduction inducer nepotism in a dryerwood termite
OT_EB_4.03 *Judith Korb (Regensburg)*
- 16:15-16:30 Ecological and genetical differentiation in two sympatric *Oulema* species
(Coleoptera, Chrysomelidae)
OT_EB_4.04 *Jens Krobbach, Susanne Dobler (Hamburg)*
- 16:30-16:45 Mate choice in the ant *Leptothorax gredleri*
OT_EB_4.05 *Angelika Oppelt, Nina Spitzenfeil, Jürgen Heinze (Regensburg)*
- 16:45-17:00 Foraging strategies of kleptoparasitic spiders in spider webs
OT_EB_4.06 *Gabriele Uhl, William Eberhard (Bonn)*

Tuesday

OT MO 3

Oral session

Short presentation

Morphology, Hörsaalgebäude Hindenburgplatz 10-12, H2

Session 3

Chair: Christian Wirkner (Jena)

- 15:30-15:45 Distribution pattern of muscle fibre types in the paravertebral musculature of
Mus musculus during postnatal development
OT_MO_3.01 *Bettina Hesse, Martin S. Fischer, Nadja Schilling (Jena)*
- 15:45-16:00 The impact of the body shape on the functional morphology of the back.
OT_MO_3.02 *Sabine Moritz, Martin S. Fischer, Nadja Schilling (Jena)*
- 16:00-16:15 Cytological and behavioral studies on the function of the pyriform
appendage of *Nautilus pompilius* (Mollusca, Cephalopoda)
OT_MO_3.03 *Bettina Westermann, Jessica Spintzik (Giessen)*
- 16:15-16:30 The Neuro- and Myogenesis of the cephalic sensory organs in *Aplysia*
californica (Mollusca, Gastropoda, Opisthobranchia)
OT_MO_3.04 *Tim Wollesen (Frankfurt a. Main)*
- 16:30-16:45 Correlations in tooth morphology, climate, and habitat structure of equids
OT_MO_3.05 *Ellen Schulz, Thoams M. Kaiser (Hamburg)*

Tuesday

OT PH 4

Oral session

Short presentation

Physiology, Hörsaalgebäude Hindenburgplatz 10-12, H1

Session 4

Chair: Christian Müller (Greifswald)

- 15:30-15:45 Inhibition of the cardiac L-type Ca channel Cav1.2 by oestrogens in mice lacking oestrogen receptors
OT_PH_4.01 *Nina Ullrich, Husam Ria, Mathew Edenbrow, Pierre Chambon, Kenneth T. MacLeod (London, United Kingdom)*
- 15:45-16:00 Examination of mitochondrial metabolism in Atlantic cod (*Gadus morhua*, LINNAEUS 1758) from a latitudinal gradient
OT_PH_4.02 *Christian Polleichtner, Felix Mark, Hans-Otto Pörtner (Bremerhaven)*
- 16:00-16:15 An ancient hormonal system regulates behavior and metabolism in the nematode *Caenorhabditis elegans*
OT_PH_4.03 *Thomas Roeder, Mark Seifert (Kiel)*
- 16:15-16:30 Robustness of exocrine response by robustness of calcium-calmodulin kinase II (CaMKII) activity in calcium signal transduction
OT_PH_4.04 *M.A. Kaufhold, M. Fähmann, M. Leitges (Hannover)*

Tuesday

LT 2 Plenary lecture

Hörsaalgebäude Hindenburgplatz 10-12, H1

Chair: D.Tautz (Köln)

17:15-18:30 Hoffnungsträger Stammzellen – Ist der Mensch regenerierbar?
Hans Schöler (MPI Münster)

Tuesday

Hörsaalgebäude Hindenburgplatz 10-12, H1
Chair:n.n.

Posterprämierung

20:00- ?? Farewell Party

“Café Uferlos”, Bismarckallee 11 am Aasee

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| Zeis | Bettina | PM_PH_1.07, PM_PH_1.25, PM_PH_1.27, PM_PH_1.30 , SM_2_1.05 , W.i.S. |
| Zerbst-Boroffka | Irene | |
| Ziegler | Christine | PM_NB_1.07 |
| Zimmermann | Jennifer | PM_DB_1.06 |
| Zimmermann | Yvonne | OT_EC_2.05 |
| Zitzler | Kristina | PM_EB_1.37 |
| Zoller | Hinrich | PM_EC_1.11 |
| Zube | Christina | OT_NB_3.02, PM_NB_1.07 |
| Zumbrägel | Sabine | PM_PH_1.30, SM_2_1.05 |