

Deutsche Zoologische Gesellschaft



103. Annual Meetings

Hamburg

17. – 21 September 2010

Program

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Sponsors and Exhibiting Companies

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www.dfg.de, Kennedyallee 40, 53175 Bonn

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www.somso.de, Friedrich-Rückert-Straße 54, 96418 Coburg

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Olympus Deutschland GmbH

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www.qiagen.com , QIAGEN Strasse 1 40724 Hilden

SARSTEDT AG & Co.

www.sarstedt.com , Sarstedtstraße, 51582 Nümbrecht

Spektrum Akademischer Verlag: Springer-Verlag GmbH, Heidelberg

www.springer.com , Zweigniederlassung der Springer-Verlag GmbH, Berlin,
Tiergartenstrasse 17, D-69121 Heidelberg

STARLAB GmbH

www.starlab.de , Kurt-Fischer-Straße 22, 22926 Ahrensburg

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www.degruyter.de , Genthiner Straße 13, 10785 Berlin

World Precision Instruments Germany GmbH

www.wpi-europe.com , Zossener Strasse 55-58 10961 Berlin

Welcome Address of the Organizers

Dear colleagues,

we are very pleased that you decided to come to Hamburg to attend this year's annual meeting, the 103rd altogether, of the German Zoological Society (DZG). Obviously we succeeded in putting together a program that attracted you and hope that you will enjoy the meeting with its breadth of zoological topics. While each of the Fachgruppen has decided on its own about their symposiums speakers, our part was to select the plenary speakers who cover topics that we find especially interesting: the origin of biodiversity in the light of recent research on speciation and hybridization, the role of physiological adaptations and phenotypic plasticity and the interactions between animals and plants as one of the driving forces generating biodiversity.

If you find the time to explore Hamburg a little before or after the conference, you will find a rapidly changing metropolis that features some of the most ambitious contemporary construction projects: the Elbphilharmonie and the Hafencity. On the other hand, looking at our buildings you will notice that the university is still struggling to be carried along in this spirit. Hamburg's traditional zoo - Hagenbecks Tierpark - in contrast, not only features its famous old fenceless grounds but also got several modern additions in recent years and is worth a visit.

But first of all, we are looking forward to the contributions of our 500 plus attendees and wish you an interesting meeting and a pleasant stay in Hamburg!

The faculty of the Zoological Institute and Museum

General Information

Conference Venue

The conference venue will be around the Martin-Luther-King Platz using the lecture halls of the Chemical Institutes in addition to the one in the Zoology building. Only the conference dinner will be in a different location (Mensa).

Language

The official language of the meeting is English except during the introductory talks on Friday and the public evening lectures on Friday and Sunday.

Registration Desk

Meeting documents and badges will be handed out at the registration desk. The registration desk is located in the right wing of the chemistry building's foyer. It can be reached by phone at 040 – 42838 5555.

Opening times:

Friday: 16:00 – 20:00h

Saturday: 8:00 – 20:00h

Sunday: 9:00 – 19:00h

Monday: 8.00 – 18:00h

Speaker Ready Room / Oral Presentations

It will not be possible to use your own computer in the lecture halls. Therefore, you should submit your files in lecture hall D (Chemistry) or in the Kosswig room (Zoology) depending on where your talk will be. Please do so a day before your talk but at least two hours before the beginning of the session in which you will present. Your files will be uploaded and will be available in your lecture hall when needed.

You can view your presentation in both speaker ready rooms to make sure your files work with our equipment.

Opening times:

Friday: 16:00 – 20:00h

Saturday: 9:30 – 13:00h

Sunday: 9:30 – 13:00h

Monday: 9.30 – 13:00h

The following presentation software will be provided:

Adobe Reader 9, Microsoft PowerPoint 2003, Microsoft PowerPoint 2007, Microsoft PowerPoint Viewer 2010, OpenOffice, Quicktime 7.

Please keep strictly to the time schedule since we are running parallel sessions and session hopping will be frequent. The session assistants and chairmen are advised to strictly limit your presentation time to the slots given in the schedule. Thank you for your cooperation on this!

Poster Presentations

The poster areas are located in the long hallway of the right wing of the Chemistry building (posters EB, EC, DB, BB, PH, NB) and in the foyer of the Zoology building (posters MO, ZS). Posters will be on display during the whole meeting, they should be mounted Friday evening or Saturday morning and taken down on Monday before the conference dinner.

The poster session on Saturday evening will include pretzels, soft drinks and beer. To give presenters a chance to look at each others posters, people with odd numbers should be at their posters from 18:00h to 19:30h, people with even numbers should present their posters from 19:30h to 21:00h.

Each participant of the conference can suggest three posters to be awarded a poster prize using the orange ballot provided in the conference bag. In addition each study group will name a jury to select the best posters of its symposium. Poster prizes by the study groups will be awarded on Monday 10.30h, the three best posters selected by the attendees will be awarded a prize by the DZG at the conference dinner on Monday evening.

Internet Access

Participants will have access to WLAN using our guest account as indicated in your conference bag. In addition, in the Zoology building several public computers are available in the library and in the CIP pool on the first floor (Rm 112).

Food and Drinks

All conference attendees are invited to the opening reception on Friday evening, free drinks and pretzels at the poster session on Saturday evening and soup for lunch on Sunday. During the conference your badge entitles you to free beverages and cookies at the coffee breaks. Many small restaurants, take away shops and the Mensa are situated in close vicinity (Grindelallee, Grindelhof and Rentzelstr.) so that you can easily find a place for lunch on Saturday and Monday.

Those of you who have booked the banquet will find the ticket in their conference bag. At the banquet you will find an Italian buffet with a variety of selected dishes including vegetarian food. Drinks at the banquet will be complimentary.

Luggage Room

On Monday you will have the possibility to store your luggage in the Kosswig Saal (Zoology building). The luggage room will be guarded until 18:00h.

Accompanying Visitors

The accompanying visitor badge qualifies you for attending the opening reception as well as the poster session, soup luncheon and coffee breaks. In addition, you find a free voucher for a city tour and a harbour cruise in your conference bag. Our staff at the registration desk will be happy to provide you with further guidance and tips on what to do and what to visit in Hamburg.

Hagenbeck's Tierpark

Hagenbeck's is generously offering a 50% reduction on its entrance fees during the conference including Tuesday, 21st of September. You have to purchase the reduced tickets at our registration desk and present it at the entrance. The special conference prices are given below:

	Adults	Children
Tierpark	8.00 €	5.50 €
Tropenaquarium	6.50 €	4.50 €
Kombi-Ticket	12.50 €	8.00 €

Excursion

The excursion to the North Sea will start Tuesday at 8:00h from the parking lot behind the Zoology building (access from Bundesstr.) and will return around 19:00h.

ethology

www.ethology.de

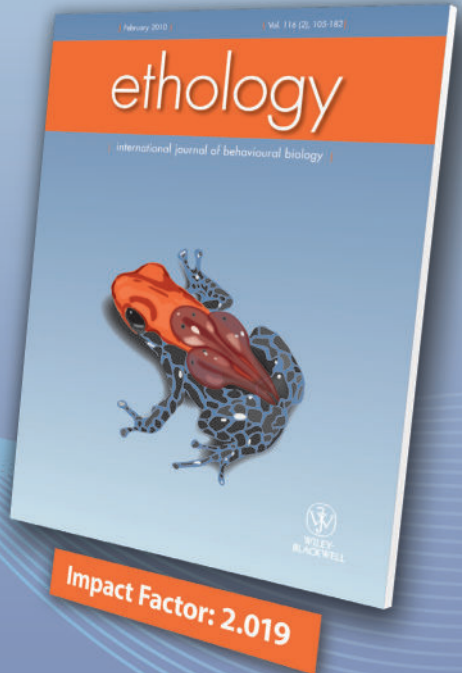
AIMS & SCOPE

International in scope, *ethology* publishes original papers on a wide range of topics relating to behavioural research including:

- **behavioural ecology**
- **ethology**
- **behavioural physiology**
- **sociobiology**

All species of animals are addressed, including humans, whilst research is preferentially experimental both from the field and the lab and grounded in a theoretical framework.

The section 'Current Issues – Perspectives and Reviews' provides an overview of the field, theoretical investigations and essays on controversial topics.



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Meeting of the Study groups

Saterday, 18. September 2010, 12.30 – 14.00

Lecture Hall A	Ecology
Lecture Hall Zoology	Zoological Systematics
Lecture Hall B	Behaviour Biology
Lecture Hall C	Developmental Biology

Sunday, 19. September, 12.30 – 14.00

Lecture Hall A	Evolutionary Biology
Lecture Hall Zoology	Morphology
Lecture Hall B	Physiology
Lecture Hall C	Neurobiology

Program Details

Friday, 17. September 2010				
Time				
14.00 - 16.00	DZG Board Meetings			
	Lecture Hall A and Zoological Museum			
18.30 - 23.00	Opening, Public Lecture I and Wellcome Reception			
Saturday, 18. September 2010				
Time	Lecture Hall A	Lecture Hall Zoology	Lecture Hall B	Lecture Hall C
8.30 - 10.30	Plenary lectures			
10.30 - 11.00	Coffee break			
11.00 - 11.30	Ecology	Morphology		
11.30 - 12.00	Zoological Systematics	Behavioral Biology		
12.00 - 12.30	Evolutionary Biology	Neurobiology		
12.30 - 14.00	Lunch break and Study Group Meetings			
14.00 - 15.30	Evolutionary Biplgy	Morphology	Neurobiology	Developmental Biology

15.30 - 16.00	Coffee break			
16.00 - 17.30	Evolutionsbiology	Ecology	Zoological Systematik	Behavioural Biology
17.30 - 18.00	break			
18.00 - 22.00	Postersession with Beer and Snacks			
18.00 - 19.30	Round Table of Morphology Study group: Zoology Room U17			
Sunday, 19. September 2010				
Time	Lecture Hall A	Lecture Hall Zoology	Lecture Hall B	Lecture Hall C
9.00 - 9.30	Physiology	Evolutionary Biology		
9.30 - 10.00	Ecology	Developmental Biology		
10.00 - 10.30	Coffee break			
10.30 - 12.30	Plenary lectures			
12.30 - 14.00	Lunch break and Study Group Meetings			
14.00 - 15.00	Poster			
15.00 - 16.30	Evolutionary Biology	Ecology	Physiology	Morphology
16.30 - 17.30	Coffee break			
17.00 - 18.30	General assembly			
18.30 - 19.00	break			
19.00 - 19.15	Rathmeyer-Prize			
19.15 - 20.15	Public Lecture			

Monday, 20. September 2010				
Time	Lecture Hall A	Lecture Hall Zoology	Lecture Hall B	Lecture Hall C
8.30 - 10.30	Plenary lectures			
10.30 - 10.45	Poster prize of the Study Group			
10.45 - 11.15	Coffee break			
11.15 - 11.45	Behavioral Biology	Physiology		
11.45 - 12.15	Zoological Systematics	Neurobiology		
12.15 - 12.45	Morphology	Developmental Biology		
12.45 - 14.15	Lunch break			
14.15 - 15.45	Evolutionary Biology	Zoological Systematics	Physiology	Behavioral Biology
15.45 - 16.15	Coffee break			
16.15 - 17.45	Evolutionary Biology	Morphology	Ecology	Zoological Systematics
17.45 - 19.00	break			
	Mensa, Von Melle Park 2			
19.00 - 24.00	Conference dinner			
Tuesday, 20. September 2010				
8.00 – 19.00	Excursion to Multimar and Westerhever			

Program Details

Friday, 17.09.2010				
Time	Lecture Hall A Chemie	Lecture Hall Zoology	Lecture Hall B Chemie	Lecture Hall C Chemie
14	00			
	15			
	30			
	45			
15	00			
	15			
	30			
	45	DZG Board Meetings		
16	00			
	15			
	30			
	45			
17	00			
	15			

	30	
	45	
18	00	Break
	15	
	30	Lecture Hall A
	45	Wellcome Adress: Decan of MIN Faculty: Heinrich Graener
19	00	Opening by the President of the DZG: Wolf-Michael Weber
	15	History and future of zoology in Hamburg: Otto Kraus and Susanne Dobler
	30	
	45	Lecture Hall A, public lekture 1:
20	00	Chair: Jutta Schneider
	15	Martin Wikelski: Warum Zoologie 'wild' und global sein muss
	30	
	45	
21	00	20.30 – 23.00 Zoological Museum: Welcome reception
	15	
	30	
	45	

Saturday, 18.09.2010

Time	Lecture Hall A Chemie	Lecture Hall Zoology	Lecture Hall B Chemie	Lecture Hall C Chemie
08	Lecture Hall A, Plenary talk 1: Chair: Kathrin Dausmann			
09	Ralph Tollrian: The ecology and evolution of inducible defences: Daphnia as model system			
10	Lecture Hall A, Plenary talk 2: Chair: Bernhard Hausdorf			
10	Menno Schilthuizen: Through the looking glass: Mirror images in animal form			
11	Coffee break			
11	Ecology S EC.1: Chair: Martin Schaefer Boris Schröder: Modelling organismic response to environmental change – patterns, processes, and functions.	Morphology S MO.1: Chair: Manuela Schmidt Nadja Schilling: Evolution of the axial musculature in craniotes - Morphology and function		

30	Zoological Systematics S			
	ZS.1:	Behavioral Biology S BB.1:		
45	Chair: Lars Podsiadlowski	Chair:		
	Thomas Stach: Pattern,	Gerlind U.C. Lehmann: Dynamics of		
	processes, and parsimony –	mating strategies in bushcrickets		
	morphological studies in the			
	post-genomic era			
12	Evolutionary Biology S EB.1:	Neurobiology S NB.1: break		
00	Chair: Thomas Schmitt	Chair: Joachim Schachtner		
	Heike Feldhaar: Evolutionary	Dorothea Eisenhardt: What drives		
	ecology of the association of	memory consolidation? Answers		
	Camponotus ants with the	from an invertebrate model system,		
15	endosymbiont Blochmannia	the honeybee (<i>Apis mellifera</i>)		
30				
45				
00				
13				
15	Lunch break and Study Group Meetings			
30				
45				

14	<p>"Evolutionary Biology 1" Chair: Feldhaar, Heike</p> <p>Vortrag EB.1: Martin Haase et al.: Back to Africa and out again: the Evolutionary and Biogeographic History of the Land Snail Genus <i>Theba</i></p>	<p>"Morphology 1" Chair: Wirkner, Christian</p> <p>Vortrag MO.1: Manuela Schmidt: Evolution of shoulder mobility in primates.</p>	<p>"Neurobiology" Chair: Engelmann, Jacob ; Schachtner, Joachim ;</p> <p>Vortrag NB.1: Timo Röver et al.: Detection of properties and contrasts of virtual objects in <i>Gnathonemus petersii</i></p>	<p>"Developmental Biology" Chair: Schoppmeier, Michael</p> <p>Vortrag DB.1: Wim G.M. Damen et al.: Conservation, loss, and redeployment of Wnt ligands in protostomes</p>
15	<p>Vortrag EB.2: Sven Bradler et al.: The stick insects of New Caledonia: an unexpected ancient radiation</p>	<p>Vortrag MO.2: Kornelius Kupczik et al.: Incisor morphology and function in the rhesus macaque (<i>Macaca mulatta</i>)</p>	<p>Vortrag NB.2: Michael Metzen et al.: Responses of sensory neurons to the existence of real objects reveal a mixed coding strategy in the brain of a weakly electric fish, <i>Gnathonemus petersii</i></p>	<p>Vortrag DB.2: Christian Hasse et al.: Approaches to study the evolution of FGFR signalling</p>
30	<p>Vortrag EB.3: Karen Meusemann et al.: Phylogeny of primary wingless hexapods: a phylogenomic approach</p>	<p>Vortrag MO.3: Marie-Christin Klein et al.: Sliding friction of the skin of the snake <i>Gongylophis colubrinus</i> (Squamata, Boidae)</p>	<p>Vortrag NB.3: Adrian Klein et al.: The energy expenditure of trout swimming in laminar and turbulent flow</p>	<p>Vortrag DB.3: Monika Hassel et al.: Three consecutive generations of nephridia occur during development of <i>Platynereis dumerilii</i> (Annelida, Polychaeta)</p>

	<p>Vortrag EB.4: Patrick Strutzenberger et al.: Phylogenetic patterns of host plant use in Neotropical <i>Eois</i> moths (Lepidoptera: Geometridae, Larentiinae)</p>	<p>Vortrag MO.4: Sebastian Schmelzle et al.: Pressure build-up in box mites (Acari, Oribatida) – one problem, two solutions</p>	<p>Vortrag NB.4: Jakob Krieger et al.: Brain architecture of <i>Birgus latro</i> L., 1767 (Crustacea, Decapoda, Anomura) in comparison to other terrestrial and marine decapod crustaceans.</p>	<p>Vortrag DB.4: Matthias Gerberding et al.: RNA localization, wnt Signaling and invariant progenitor lineages in <i>Parhyale hawaiiensis</i> (Crustacea, Amphipoda)</p>
15	<p>Vortrag EB.5: K. Hacker et al.: Evolution in the Pantry? Strain differences indicate speciation processes in <i>Lariophagus distinguendus</i></p>	<p>Vortrag MO.5: Bastian J. Klußmann et al.: Comparative morphology of the circulatory system in Scorpions: an evolutionary character analysis</p>	<p>Vortrag NB.5: Linda Weiss et al.: Cholinergic and dopaminergic stimulation induces the formation of inducible morphological defence structures in <i>Daphnia pulex</i></p>	<p>Vortrag DB.5: Reinhard Schröder et al.: FGF signalling is required for dorsal closure during embryogenesis of the beetle <i>Tribolium castaneum</i></p>
15	<p>Vortrag EB.6: Cornelia Rüdiger et al.: Genetic differentiation of multiple distinct strains of <i>Lariophagus distinguendus</i> (Hymenoptera: Pteromalidae)</p>	<p>Vortrag MO.6: Jörg U. Hammel et al.: The macroscopic and microscopic anatomy of a poriferan aquiferous system</p>	<p>Vortrag NB.6: Christina Kelber et al.: Phenotypic plasticity in the olfactory system of polymorphic ant workers</p>	<p>Vortrag DB.6: Georg Wolfstetter et al.: Morphology and genetic analysis of mutations that affect visceral Development in <i>Drosophila</i></p>

30				
45	Coffee break			
16	<p>"Evolutionary Biology 2" Chair: Kupfer, Alexander</p> <p><u>Vortrag EB.7: Kathrin Lampert et al.</u>: Determination of onset of sexual maturation and mating behavior by melanocortin receptor 4 polymorphisms</p>	<p>"Ecology 1" Chair: Schröder, Boris ;</p> <p><u>Vortrag EC.1: Stephanie S Bauerfeind et al.</u>: The effects of past and present inbreeding events on life history traits and stress resistance</p>	<p>"Zoological Systematics 1" Chair: Schmidt-Rhaesa, Andreas ;</p> <p><u>Vortrag ZS.1: Carmen Döring et al.</u>: Molecular and structural characterization of photoreceptor cells in <i>Schmidtea mediterranea</i></p>	<p>"Behavioral Biology: Predatory and antipredatory behavior 1" Chair: Eccard, Jana ; Siemers, Björn ;</p> <p><u>Vortrag BB.1: Klaas W Welke et al.</u>: Males of the orb-web spider <i>Argiope bruennichi</i> sacrifice themselves to unrelated females</p>
15	<p><u>Vortrag EB.8: Frederick T. Wehrle et al.</u>: Sensory drive of colour signals in humans</p>	<p><u>Vortrag EC.2: Inon Scharf et al.</u>: Varying impact of habitat quality, competition and parasitism in two systems of slavemaking ants and their hosts</p>	<p><u>Vortrag ZS.2: Carsten Lüter et al.</u>: Ciliary photoreceptors facilitate directional vision in brachiopod larvae</p>	<p><u>Vortrag BB.2: Katrin Kunz et al.</u>: Is the way to a women's heart through her stomach? Male cephalic secretions in dwarf spiders</p>

30	<p><u>Vortrag EB.9: Thomas Friedl et al.:</u> Plumage colouration, age and dominance in male red bishops (<i>Euplectes orix</i>): an experimental test</p>	<p><u>Vortrag EC.3: Peggy Giertz et al.:</u> Constrains and Flexibility - Habitats differing in food availability and quality promote distinct foraging strategies in a single species population</p>	<p><u>Vortrag ZS.3: Anne-C. Zakrzewski et al.:</u> Comparing the formation of chaetae in Lophotrochozoa on the molecular and structural level</p>	<p><u>Vortrag BB.3: Joachim Ruther et al.:</u> Behavioural switch in the sex pheromone response of <i>Nasonia vitripennis</i> females is linked to receptivity signalling</p>
45	<p><u>Vortrag EB.10: Johannes Stökl et al.:</u> Yeast mimicry? – Olfactory mimicry in the Solomon’s lily (<i>Arum palaestinum</i>)</p>	<p><u>Vortrag EC.4: Axel Strauß et al.:</u> Species richness, functional and phylogenetic diversity of Madagascar’s rainforest stream tadpole communities along seasonal climatic changes</p>	<p><u>Vortrag ZS.4: Günter Purschke et al.:</u> Ultrastructure of the ventral pharynx in the interstitial annelid <i>Questa paucibranchiata</i> (Orbiniidae) and its phylogenetic importance</p>	<p><u>Vortrag BB.4: Sylvia Ortman et al.:</u> Sex allocation and costs of reproduction in European roe deer (<i>Capreolus capreolus</i>)</p>
17 00	<p><u>Vortrag EB.11: Jan Bülesbach et al.:</u> Chemical communication mediated by species-specific cuticular hydrocarbon profiles in the jewel wasp <i>Nasonia</i> - from phenotypic to genetic architecture</p>	<p><u>Vortrag EC.5: Prinzing Andreas et al.:</u> Macroevolutionary island trees suffer less phytophagy</p>	<p><u>Vortrag ZS.5: Dominik Kieselbach et al.:</u> Ultrastructural study points to a close relationship of Sabellida, Sabellariidae and Spionida within Annelida</p>	<p><u>Vortrag BB.5: Joanna Fietz:</u> Behavioural and physiological consequences of reproductive activity in male edible dormice (<i>Glis glis</i>)</p>

15	<p><u>Vortrag EB.12: Martin Helmkampf et al.</u>: The genetic basis of chemoreception and communication – insights from an ant genome</p>	<p><u>Vortrag EC.6: Susanne Kobbe et al.</u>: Inter-annual variation of metabolic rate and thermoregulatory patterns in Malagasy mouse lemurs</p>	<p><u>Vortrag ZS.6: Torsten H Struck et al.</u>: Escaping the symplesiomorphy trap: a case study of Terebelliformia.</p>	<p><u>Vortrag BB.6: Ulrich Pörschmann et al.</u>: Male reproductive success and its behavioural correlates in a polygynous mammal, the Galápagos sea lion (<i>Zalophus wollebaeki</i>)</p>
30 45	break			
18 ⁰⁰				
15	18.00 – 19.30 Round Table of study group Morphology, U17 Zoology			
30				
45	18.00 – 22.00 Postersession with Beer and Snacks			
19 ⁰⁰				

Sunday, 19.09.2010

Time		Lecture Hall A Chemie	Lecture Hall Zoology	Lecture Hall B Chemie	Lecture Hall C Chemie
09	00	Physiology S PH.1: Chair: Thomas Röder Kai Lüersen: The power of positive charges - investigating novel polyamine functions.	Evolutionary Biologie S EB.2: Chair: Gabriele Uhl Leif Engqvist: Sex, scorpionflies, and selection differentials		
	15				
	30	Ecology S EC.2: Chair: Petra Quillfeldt J. Krauss: Endophtic fungi in grass species: cascading effects on higher trophic levels	Developmentel Biology S DB.1: Chair: Matthias Gerberding Niko Prpic: Role of the Hox gene Antp in walking leg morphology specification in insects and spiders.		
	45				
10	00	Coffee break			
	15				

11	30	Lecture Hall A, Plenary talk 3: Chair: Gregor Kölsch Mike Singer: Evolutionary ecology of tri-trophic interactions
	45	
	00	
12	15	Lecture Hall A, Plenary talk 4: Chair: Angelika Brandt Hans-Otto Pörtner: Oxygen- and capacity limitation of thermal tolerance: a matrix for integrating climate-related stressor effects in marine ecosystems
	30	
	45	
13	00	Lunch break and Poster
	15	
	30	
	45	
	00	
14		

15	00	<p>"Evolutionary Biology 3" Chair: Schäfer, Martin, Andreas</p> <p><u>Vortrag EB.13: Frieder Mayer et al.</u>: Hybridization and speciation in acoustically communicating grasshoppers</p>	<p>"Ecology 2" Chair: Krauss, Jochen ; <u>Vortrag EC.7: Azlan Mohamed et al.</u>: Can commercially used forests contribute to the conservation of threatened carnivores? Two years of camera-trapping in managed forest reserves in Sabah Malaysia.</p>	<p>"Physiology 1" Chair: Hoeger, Ulrich ; Arnold, Philipp</p> <p><u>Vortrag PH.1: Renja Romey et al.</u>: Impact of Starvation on the Gene Expression Pattern of the Fat Body in Adult Fruit Flies</p>	<p>"Morphology 2" Chair: Müller, Hendrik</p> <p><u>Vortrag MO.7: Andreas Schmidt-Rhaesa et al.</u>: Brain evolution in the "Nemathelminthes" - a summary</p>
15	15	<p><u>Vortrag EB.14: Munjong Kolss</u>: Hybridization avoidance in grasshoppers: why and how is it done?</p>	<p><u>Vortrag EC.8: Sabine Greiner et al.</u>: Predictable estrus timing of a small tropical mammal in an almost aseasonal environment</p>	<p><u>Vortrag PH.2: Eva Philipp et al.</u>: Immune system and ageing research in bivalves using transcriptome analysis</p>	<p><u>Vortrag MO.8: Andy Sombke et al.</u>: Organization of deutocerebral neuropils in representatives of the Chilopoda (Myriapoda)</p>
15	30	<p><u>Vortrag EB.15: Andreas Wilting et al.</u>: Four islands, three big cats and three histories; tigers, leopards and clouded leopards in the Sunda Shelf</p>	<p><u>Vortrag EC.9: Caroline Stolter</u>: The moose in the willows: Differences in the effects of plant secondary metabolites on feeding decisions</p>	<p><u>Vortrag PH.3: Aylin Kademci et al.</u>: Caenopores in the defence of <i>Caenorhabditis elegans</i></p>	<p><u>Vortrag MO.9: Corinna Krempf et al.</u>: Comparative studies on the ultrastructure of compound eyes within the hermit crab genus <i>Clibanarius</i> and phylogeography of the Mediterranean representative <i>Clibanarius erythropus</i> (Decapoda, Paguroidea)</p>

	45	<p><u>Vortrag EB.16: Florian Leese et al.:</u> Long-distance island hopping without dispersal stages: transportation across major zoogeographic barriers in a Southern Ocean isopod</p>	<p><u>Vortrag EC.10: Simone Sommer et al.:</u> Testing the fragmentation threshold hypothesis – genetic diversity and structure in populations of the endemic marsupial <i>Marmosops incanus</i> in landscapes with different proportion of remaining Brazilian Atlantic forest</p>	<p><u>Vortrag PH.4: Reinhard Saborowski et al.:</u> Cellulose utilization by marine crustaceans</p>	<p><u>Vortrag MO.10: Gregor Kölsch et al.:</u> Between two worlds: a flat cornea surface renders possible vision in water and air in the amphibious reed beetle <i>Neohaemonia</i> (Coleoptera, Chrysomelidae, Donaciinae)</p>
16	00	<p><u>Vortrag EB.17: Sabine Radmacher:</u> Does experimentally induced communal nesting in a solitary bee reduce the risk of open-cell parasitism?</p>	<p><u>Vortrag EC.11: Anna Bastian et al.:</u> Indications for a divergence of two morphotypes of the bat, <i>Macrotus waterhousii minor</i> in passive listening, echolocation and manoeuvrability?</p>	<p><u>Vortrag PH.5: Sven Schenk et al.:</u> Glutathionyl-biliverdin IX-alpha, a new heme catabolite in a marine annelid: sex and cell specific accumulation.</p>	<p><u>Vortrag MO.11: Gabriele Uhl et al.:</u> What makes a male head interesting for females? -- Cephalic adaptations in dimorphic dwarf spiders of the genus <i>Oedothorax</i> (Erigoninae, Linyphiidae, Araneae)</p>
	15	<p><u>Vortrag EB.18: Dirk J. Mikolajewski et al.:</u> Integrating Antipredator Traits: Multiple Predators and Shifts in Selection</p>	<p><u>Vortrag EC.12: Christian Voigt et al.:</u> Why bats fly at night?</p>	<p><u>Vortrag PH.6: Nicole Linklater et al.:</u> vtk-online: Computer Assisted Learning for Teaching Laboratory Animal Science</p>	<p><u>Vortrag MO.12: Alexander Ziegler et al.:</u> Plasticity and evolution of the gastric caecum in sea urchins (Echinodermata: Echinoidea)</p>

	30	Coffee break
	45	
17	00	Lecture Hall C: General assembly
	15	
	30	
	45	
18	00	break
	15	
	30	
	45	
19	00	Lecture Hall A: Rathmeyer-Prize
	15	
	30	Lecture Hall A, Public Lecture 2:
	45	Chair: Alexander Haas
20	00	R.K. Kinzelbach: Die neu entdeckten Tierbilder des Artemidor-Papyrus

Monday, 20.09.2010

Time	Lecture Hall A Chemie	Lecture Hall Zoology	Lecture Hall B Chemie	Lecture Hall C Chemie
08 ³⁰	Lecture Hall A, Plenary Lecture 5: Chair: Thorsten Burmester			
09 ⁰⁰				
09 ¹⁵	Jürgen Gadau: Genetics and Genomics of Adaptation, Species Differences and Speciation in Hymenoptera			
09 ³⁰	Lecture Hall A, Plenary Lecture 6: Chair: Jörg Ganzhorn			
10 ⁰⁰				
10 ¹⁵	Bill Foley: Monkeys, moose and marsupials - plant chemistry and population dynamics			
10 ³⁰	Poster prize of the Study Group			
10 ⁴⁵	Coffee break			
11 ⁰⁰	Behavioral Biology S BB.2: Chair: L. Levejohann: The role of genes and environment in shaping behavioral profiles of transgenic and knockout mice			
11 ¹⁵				
11 ³⁰	Physiology S PH.2: Chair: Walter Stöcker Christoph Becker-Pauly: Let it flow: the metalloprotease meprin alpha is a pro-angiogenic enzyme			

12	45	<p>Zoological Systematics S ZS.2: Chair: Christoph Bleidorn Andrea Waeschenbach: The causes and effects of radiations throughout geological time: New phylogenetic insights from the 'minor' phylum Bryozoa</p>	<p>Neurobiology S NB.2: Chair: Jacob Engelmann Uwe Firzlaff: The neural basis of echo imaging in echolocating bats</p>		
13	15	<p>Morphology S MO.2: Chair: Michael Nickel Michael Heethoff: Functional morphology and evolutionary implications of particle feeding in chelicerate microarthropods (Acari, Oribatida)</p>	<p>Developmental Biology S DB.2: Chair: Matthias Gerberding Michael Schoppmeier: Maternal control of Tribolium segmentation</p>		
	45				
13	00				
	15				
	30	<p>Lunch break and poster</p>			
	45				
14	00				

15	<p>"Evolutionary Biology 4" Chair: Schulte, Rebecca</p> <p><u>Vortrag EB.19: Andra Thiel et al.</u>: Single-sex broods as a means of inbreeding avoidance in the parasitic wasp <i>Bracon variator</i></p>	<p>"Zoological Systematics 2" Chair: Bleidorn, Christoph ;</p> <p><u>Vortrag ZS.7: Lars Vogt et al.</u>: <i>Collaborative Live-Editing of Morphological Character Matrices in Morph-D-Base</i></p>	<p>"Physiology 2" Chair: Pick, Christian ; Czech, Nicole ;</p> <p><u>Vortrag PH.7: Bettina Zeis et al.</u>: Adaptive processes to temperature change in <i>Daphnia</i>: The role of reproduction strategies for the success of genotypes within the zooplankton community</p>	<p>"Behavioral Biology 2" <u>Vortrag BB.7: Silke Kipper et al.</u>: Song Responses to Male and Female Call Playbacks in Common Nightingales(<i>LUSCINIA MEGARHYNCHOS</i>).</p>
30	<p><u>Vortrag EB.20: Timo Thünken et al.</u>: The relative importance of relatedness and quality in the mate choice of females and males in a cichlid fish</p>	<p><u>Vortrag ZS.8: Jörn von Döhren</u>: Development of the serotonergic nervous system in Nemertea</p>	<p><u>Vortrag PH.8: Nicole U. Czech et al.</u>: Energy metabolism and antioxidative capacities of brain neurons in diving hooded seals (<i>Cystophora cristata</i>)</p>	<p><u>Vortrag BB.8: Stefan Leitner</u>: Importance of a model for song learning in songbirds</p>
45	<p><u>Vortrag EB.21: Martin A. Schäfer et al.</u>: Latitudinal Variation and Temperature Plasticity in a Polymorphic Sperm Storage Organ</p>	<p><u>Vortrag ZS.9: Alexander Gruhl et al.</u>: <i>Buddenbrockia plumatellae</i>: a novel cnidarian body-plan</p>	<p><u>Vortrag PH.9: Miriam Blank et al.</u>: Globin X is an ancient, membrane-bound respiratory protein</p>	<p><u>Vortrag BB.9: Silke L. Voigt-Heucke et al.</u>: Do Bats Jazz? Song Composition and Syntax in the Song of the Common Noctule Bat</p>

15	00	<u>Vortrag EB.22: Sabine Nöbel et al.</u> : Do sailfin molly males adjust sperm transfer to mate-choice copying?	<u>Vortrag ZS.10: Christian Bauer et al.</u> : Taxonomy and ontogeny: a baseline study on caecilian amphibians	<u>Vortrag PH.10: Sandra Fehsenfeld et al.</u> : Effects of elevated $p\text{CO}_2$ on gene expression patterns and ion regulation processes in the Green crab <i>Carcinus maenas</i>	<u>Vortrag BB.10: Thilo Liesenjohann et al.</u> : Does risk-sensitive foraging depend on the costs of missed opportunities?
	15	<u>Vortrag EB.23: Lutz Fromhage</u> : Mating unplugged - the evolution of mating plug (dis-) placement	<u>Vortrag ZS.11: Franziska Franke et al.</u> : Genetic differentiation of the African dwarf crocodile <i>Osteolaemus tetraspis</i> (Cope, 1861)	<u>Vortrag PH.11: Geraldine Leier et al.</u> : Sildenafil enhances the wt-CFTR activation and restores the ΔF508 -CFTR function	<u>Vortrag BB.11: Karin Schneeberger et al.</u> : Reciprocal cooperation in rats depends on cost to donor and benefit to recipient
	30	<u>Vortrag EB.24: Alexander Kupfer</u> : The evolution of parental investment in caecilian amphibians	<u>Vortrag ZS.12: Alexander Suh et al.</u> : Shedding new light on avian phylogeny via phylogenetic signals derived from retroposon insertion patterns	<u>Vortrag PH.12: Philipp Arnold et al.</u> : Low resolution 3D electron microscopy performed in one day	<u>Vortrag BB.12: E. Tobias Krause et al.</u> : Smells like home - Odour based natal nest recognition in the zebra finch, a colony breeding songbird
	45				
	00	Coffee break			

16	<p>"Evolutionary Biology 5" Chair: Bauerfeind, Stephanie</p> <p>Vortrag EB.25: Inka Montero et al.: Examining partner choice parameters and MHC diversity - Tracing adaptation in recently separated house mouse populations</p>	<p>"Morphology 3" Chair: Ziegler, Alexander</p> <p>Vortrag MO.13: Sabrina Kaul et al.: The ontogeny of the collar cord in hemichordates is homologous to chordate neurulation</p>	<p>"Ecology 3" Vortrag EC.13: Juan F. Masello et al.: Three dimensional space and time segregation in female and males Imperial Shags</p>	<p>"Zoological Systematics 3" Chair: Podsiadlowski, Lars ;</p> <p>Vortrag ZS.13: Ralph S. Peters et al.: A new large-scale approach to Hymenoptera phylogeny</p>
30	<p>Vortrag EB.26: Philipp Krämer et al.: Selecting appropriate estimators for genetic population differentiation – a critical task for studying marine conservation and stock management.</p>	<p>Vortrag MO.14: Christine Nowack: Functional morphology of the anuran lateral nasal gland: mechanisms for the transport of vomeronasal stimuli</p>	<p>Vortrag EC.14: Franziska Grözinger et al.: Size plasticity in metamorphic <i>Rana temporaria</i></p>	<p>Vortrag ZS.14: Michael Gerth et al.: A <i>Wolbachia</i> infection in <i>Nomada alboguttata</i> (Hymenoptera, Apidae) reveals problems with barcoding approaches in bees</p>
45	<p>Vortrag EB.27: Andreas Hapke et al.: Population genetic analysis of contact zones between mouse lemurs in different ecological situations</p>	<p>Vortrag MO.15: Thomas Kleinteich et al.: Homology meets terminology: a comparative study on the cranial musculature in larval amphibians</p>	<p>Vortrag EC.15: Ralf Thiel et al.: Response of fluvial fishes to variation in habitat quality: an application of habitat suitability models in bank habitats of the Elbe River</p>	<p>Vortrag ZS.15: Jörn A. Pützschler et al.: Molecular phylogeny of the genus <i>Hydropsyche</i> (Insecta: Trichoptera) contrasted with larval morphology</p>

17	00	<u>Vortrag EB.28: F. Bernhard Kraus et al.</u> : Temporal genetic structure of a drone congregation of the stingless bee <i>Scaptotrigona mexicana</i>	<u>Vortrag MO.16: Robert Salzer et al.</u> : Properties of the perivertebral musculature of salamanders	<u>Vortrag EC.16: Petra Quillfeldt et al.</u> : Small pelagic seabirds in polar waters - interannual differences in foraging patterns	<u>Vortrag ZS.16: Michael Mende et al.</u> : Phylogeography of the West Palaearctic <i>Hyles euphorbiae</i> complex (Lepidoptera, Sphingidae) and discovery of new cryptic lineages
	15	<u>Vortrag EB.29: Anna Buentge et al.</u> : A systematic search for signatures of selective sweeps based on a 454 sequencing approach	<u>Vortrag MO.17: Hendrik Müller</u> : Did desmognathid salamanders re-evolve an aquatic larva?	<u>Vortrag EC.17: Lars Gutow et al.</u> : The distribution of herbivorous amphipods within sporophytes of giant kelp	<u>Vortrag ZS.17: Susanne Füssel et al.</u> : Phylogeography and genetic diversity of neotropical freshwater shrimp of the family Atyidae (Decapoda, Caridea)
	30	<u>Vortrag EB.30: John Baines et al.</u> : The influence of <i>B4galnt2</i> expression on the intestinal microbiota in house mice	<u>Vortrag MO.18: Susanne Kühnel et al.</u> : Oviparous or viviparous?	<u>Vortrag EC.18: Nikolaus Elsner et al.</u> : Preliminary results of the Russian-German SoJaBio (Sea of Japan Biodiversity Studies) expedition with RV Akademik Lavrentjev in August 2010.	<u>Vortrag ZS.18: Martin Schwentner et al.</u> : Phylogeography of Australian clam shrimp species (Branchiopoda: Spinicaudata) – regional endemism <i>versus</i> wide dispersal
	45				

19.00 – 24.00 Mensa, Von Melle Park 2: **Conference dinner**

List of Posters

Behavioral Biology

BB.1

JÜRGEN TRETTIN, MONIKA HAUBNER, JÜRGEN HEINZE

Occurrence and Establishment of reproductive dominance hierarchies in the ant *Leptothorax acervorum*

BB.2

SABINE FROHSCHAMMER, ANTONIA KLEIN, MASAKI SUEFUJI, JÜRGEN HEINZE

Proximate mechanisms of early male production in *Cardiocondyla* ants

BB.3

NADINE WENZLER, SARA MAE STIEB, WOLFGANG RÖSSLER, RÜDIGER WEHNER

A special type of olfactory recruitment behavior in the Namibian desert ant *Ocymyrmex robustior*.

BB.4

STEFANIE ZIMMER

Determinants of natural mating success in the cannibalistic orb-web spider *Argiope bruennichi*

BB.5

Mating behaviour of the non-native *Caprella mutica* Schurin, 1935 (Crustacea, Amphipoda)

BB.6

KARIN BOOS, LARS GUTOW, HEINZ-DIETER FRANKE

Mate Choice Copying in Zebra Finches: Sexes Differ

NINA KNIEL¹, CLARISSA DÜRLER¹, VERONIKA HEINBACH¹, KLAUDIA WITTE¹

BB.7

ROBERT ULLRICH, CONSTANCE SCHARFF

Rhythmic integration of song and dance during courtship of male zebra finches (*Taeniopygia guttata*)

BB.8

ANNA MAGDALENA HOHMANN, ANJELIC CAPAR, CONSTANCE SCHARFF

Der taktvolle Fink: Female zebra finches (*Taeniopygia guttata*) attend to song rhythm in courtship song

BB.9

ERIN REARDON, ALANA PARISI, LAUREN CHAPMAN, RÜDIGER KRAHE

Cheap communication: is the generation of electric signals by wave-type weakly electric fishes metabolically expensive?

BB.10

KRISTINA GEBHARDT, GERHARD VON DER EMDE

Electrocommunication and social behaviour in a group of weakly electric fish, *Mormyrus rume* (Mormyridae, Teleostei)

BB.11

KATHARINA BEHR, GERHARD VON DER EMDE

3-dimensional object detection during active electrolocation in the weakly electric fish, *Gnathonemus petersii*

BB.12

KATHARINA ANNICK WÜSTEN, GERHARD VON DER EMDE

Detection thresholds for weak electric sine wave signals in sharks and rays

BB.13

SARAH SCHUMACHER, GERHARD VON DER EMDE, KATHARINA BEHR

Jamming avoidance during active electrolocation of objects in the weakly electric fish, *Gnathonemus petersii*

BB.14

JULIA ARTHTHI SAKTHISIVANTHA, GERHARD VON DER EMDE

Effects of visual noise on object detection in *Gnathonemus petersii* and *Lepomis gibossus*

BB.15

JUDITH MEYER-SCHWICKERATH, BERND BAIER, JOACHIM MOGDANS

Multimodal guidance of prey capture behavior in three species of fish

BB.16

ANDRÉ STEINER, HORST BLECKMANN

Perception of hydrodynamic stimuli by the lateral line in fish

BB.17

MONIKA EBERHARD, STEFAN EBERHARD

On the Diversity, Function and Perception of Vibrational Communication Signals in Mantophasmatodea (Insecta)

BB.18

KERSTIN KOWALSKI, REINHARD LAKES-HARLAN

Acoustic species separation of armoured ground crickets (Hetrodinae)

BB.19

Hear Ye!

NICOLE STANGE, BERNHARD RONACHER

Are Females of *Chorthippus biguttulus* Able to Hear How Big and How Healthy a Conspecific Male Singer is?

BB.20

NICOLE BERSAU, THEO C. M. BAKKER, TIMO THÜNKEN, SEBASTIAN A. BALDAUF

Predation risk of *Gammarus pulex* infected with an acanthocephalan parasite when preyed upon by different potential fish hosts.

BB.21

RÜDIGER BERGHANN, SILVIA MOHR, RONNY SCHMIEDICHE, VERENA HÜBNER, MICHAEL FEIBICKE, STEFAN LOTH, RALF SCHMIDT

Changes in macroinvertebrate drift during and after insecticide pulses in stream mesocosms

BB.22

GUDRUN SCHNEIDER, KONSTANZE KRUEGER

3rd party Intervention in horses (*Equus caballus*)

BB.23

KRISTINA VOGT, URS BREITENMOSER, FRIDOLIN ZIMMERMANN

To pee or not to pee- The role of urine marks in lynx communication

BB.24

LEIF SÖNNICHSEN, SYLVIA ORTMANN, HERIBERT HOFER, WŁODZIMIERZ

JĘDRZEJEWSKI

**Behavioural responses of roe deer to hunting in the surroundings of the Bia-
łowieża Primeval Forest**

BB.25

MIRJAM BECKER, PAUL BERTHEAU, HERIBERT HOFER, FRANK GÖRITZ, SYLVIA

ORTMANN

**Energetic conflicts between and within generations in European Roe Deer
(*Capreolus capreolus*) during lactation period**

BB.26

MONIQUE LIESENJOHANN, JANA ECCARD

**Stress before parturition - effects of a potential nest predator in a vole-shrew
study system**

BB.27

TATJANA KNOPP, THILO LIESENJOHANN, ANTJE HERDE, JANA ECCARD

Anti-predatory behaviour of female voles in different reproductive states

BB.28

STEFAN FISCHER, SCHÄDELIN FRANZISKA C., WAGNER RICHARD H.

**Neighbors reduce the cost of predator deterrence in a colonial breeding cich-
lid, *Neolamprologus caudopunctatus***

BB.29

ANTONIA KÖHLER, PHILIPP HILDENBRAND, ELKE SCHLEUCHER, MARTIN PLATH

**Does male sexual harassment affect female time budgets, feeding behavior,
and metabolic rates in a tropical livebearing fish (*Poecilia mexicana*)?**

BB.30

ANTJE HERDE, THILO LIESENJOHANN, TATJANA KNOPP, JANA A. ECCARD

**The relevance of behavioural categories in the laboratory for behaviour in the
wild**

BB.31

JANA A. ECCARD, ANTJE HERDE, THILO LIESENJOHANN, TATJANA KNOPP

Dispersal and Personality

Poster BB.32

ANJA GÜNTHER, FRITZ TRILLMICH

**Individual differences in physiology and behaviour in a precocial rodent:
Personality traits?**

Developmental Biology

DB.1

DANIEL ČAPEK, PETRA POKORNY, LAURA BISCHOF, BRIAN METSCHER

X-ray micromorphological approach to avian digit development

DB.2

FLEMMING DAHLKE

Mortality and development during early life phases of Atlantic cod (*Gadus morhua*) in relation to paternity and water temperature.

DB.3

MARCUS FRANK, CORDULA TSCHUCH, HENRIETTE BERTEMES

Expression and function of gamma-protocadherins in the developing mouse lung

DB.4

HEIKE GRUBER, EVA PHILIP¹

Investigation of the molecular ageing process of the long-lived bivalve *Arctica islandica*

DB.5

CONRAD HELM, STEFANIE HARTMANN, MATTHIAS MEYER, CHRISTOPH BLEIDORN

A survey of the expression of developmental genes in adult myzostomids (Protostomia, Myzostomida)

DB.6

INGA KARCH, SARA KHADJEH, NIKOLA-MICHAEL PRPIC

Late function of Hox genes in *Tribolium castaneum*

DB.7

ANIKA SCZIBILANSKI, NICOLE REBSCHER

Identification of molecular mechanisms of germ cell specification in the polychaete *Platynereis dumerilii*

Evolutionary Biology

EB.1

ERICH EDER, KATHARINA TURIC, NORBERT MILASOWSZKY, KATHERINE VAN ADZIN, ANDREAS HERGOVICH

Darwin or God? ID, Creationism, and other Superstitions at Secondary Schools in Austria

EB.2

PETER REHM, BORNER JANUS, BURMESTER THORSTEN

Arthropod relationships: Can expressed sequence tags (ESTs) resolve the phylogenetic position of Myriapoda?

EB.3

P BJOERN M. VON REUMONT, KAREN MEUSEMANN, BERNHARD MISOF, JOHANN-WOLFGANG WÄGELE

Phylogenomics of crustaceans

EB.4

MARIA GOMEZ, SUZANNE WILLIAMS, DAVID REID, MATTHIAS GLAUBRECHT

How “clusterwinks” cluster. A phylogeny of the family Planaxidae (Gastropoda: Cerithioidea)

EB.5

MASAKI SUEFUJI, JÜRGEN HEINZE

The early evolution of the socially parasitic ant genus *Myrmoxenus*: Reconstruction of the phylogenetic tree

EB.6

VIVIANA FIORENTINO, GIUSEPPE MANGANELLI, FOLCO GIUSTI, RALPH TIEDEMANN, VALERIO KETMAIER

The radiation of Sicilian *Murella* (Mollusca, Gastropoda): a population genetics study

EB.7

J. SUSANNE HAUSWALDT, CLAUDIO ANGELINI, ANDY POLOK, CARLO UTZERI, SEBASTIAN STEINFARTZ

Phylogeography and small scale population genetics of the genus *Salamandrina* (Spectacled Salamanders) from Italy

EB.8

JAN SAUER, JENS OLDELAND, BERNHARD HAUSDORF

Phylogeographic patterns of mitochondrial and AFLP markers across the range of an endemic land snail species on Crete

EB.9

FRANK ZACHOS, ANN-CHRISTIN HONNEN, NORBERT KENNTNER, LENKA DUBSKA, IVAN LITERAK, FRANK HAILER

Genetic diversity and phylogeography of the European white-tailed sea eagle (*Haliaeetus albicilla*)

EB.10

MAXIMILIAN SCHWEINSBERG, KATHRIN P. LAMPERT, SEBASTIAN STRIEWSKI,, RALPH TOLLRIAN

Genetic diversity and gene flow in in the reef building coral *Acropora humilis*

EB.11

CHRIS EBERLEIN, SHOBHIT AGRAWAL, CHRISTOPH HELD

Molecular and morphological evidence for cryptic species in the abundant Antarctic crustacean megafauna: the Antarctic mysid *Antarctomysis maxima*

EB.12

VOLKER SCHMID, STEFANIE KAUTZ, THOMAS RÖSSLER, JÜRGEN HEINZE

Sociogenetics and population genetics of *Pseudomyrmex gracilis* (Formicidae)

EB.13

BARBARA CASPERS, SEBASTIAN STEINFARTZ

The scent of speciation - odour based mate choice in a diverging fire salamander (*Salamandra salamandra*) population

EB.14

MARC FRIEDRICH, THOMAS SCHMITT

Chemical signals as territorial markers: A comparative study on male marking pheromones in the digger wasp genus *Cerceris*

EB.15

CHRISTIAN KÖNIG, JOHANNES L.M. STEIDLE, TILL TOLASCH

The click to speciation: A closer look at the click beetle *Idolus picipennis*

EB.16

CHRISTIAN TRITSCH, STEFAN PENTZOLD, MARTIN PÄCKERT

Gene flow and biological species limits in the *Parus ater* - *P. melanolophus* complex

EB.17

SANDRA DAMM, HEIKE HADRY

Cryptic speciation via habitat shift – Discovery of the first cryptic dragonfly species

EB.18

SEBASTIAN VETTER, BÜLLESBACH JAN, SCHMITT THOMAS

Differences in cuticular hydrocarbon-mediated mate discrimination behaviour between closely related genera of parasitic wasps

EB.19

SEBASTIAN A BALDAUF, THEO CM BAKKER, HARALD KULLMANN, TIMO THÜNKEN

Female nuptial coloration and its adaptive significance in a mutual mate choice system

EB.20

MICHAELA THOß, PETTERI ILMONEN, KERSTIN MUSOLF, DUSTIN PENN

MHC-heterozygosity and reproductive success in wild-derived house mice (*Mus musculus musculus*)

EB.21

INGOLF P RICK, MARION MEHLIS, THEO CM BAKKER

Beauty is in the eye of the beholder: evidence for a genetic correlation between male colour expression and female visual sensitivity in sticklebacks

EB.22

HELMA ROGGENBUCK¹, JUTTA M. SCHNEIDER¹

The hook and groove mechanism: a sexually selected trait in male spiders (*Araneus diadematus*)

EB.23

A comparison of male accessory gland proteins in a male-dimorphic ant species

MARION FUESSL¹, JÜRGEN HEINZE¹, ALEXANDRA SCHREMPF¹

EB.24

TOBIAS MAUL, MARION FUESSL, ALEXANDRA SCHREMPF, JÜRGEN HEINZE

Male accessory gland proteins in the ant genus *Cardiocondyla*

EB.25

KATHRIN LANGEN, TIMO THÜNKEN, JANINE KLEMM, SEBASTIAN BALDAUF, THEO C.M. BAKKER

Effects of inbreeding on sperm traits in the cichlid *Pelvicachromis taeniatus*

EB.26

CORNELIA HINZ, JASMINCA BEHRMANN-GODEL, CLAUS OPPELT, GABRIELE GERLACH

Olfactory imprinting and kin recognition in larval zebrafish (*Danio rerio*)

EB.27

REBECCA SCHULTE, KIRSTEN SANDER

Stress influences the pheromone production of *Caenorhabditis elegans*

EB.28

JAN OETTLER, MASAKI SUEFUJI, JÜRGEN HEINZE

The evolution of alternative reproductive tactics in *Cardiocondyla* ants

EB.29

NICOLE RUPPEL, JUTTA M. SCHNEIDER

Male *Nephila senegalensis* adjust individual development to male competition and future mating opportunities

EB.30

ARNDT WELLBROCK, CHRISTINA BAUCH, JAN ROZMAN, KLAUDIA WITTE

Daughters preferred – imbalanced sex ratio in offspring in a colony of common swifts *Apus apus*

EB.31

MARIA VEDDER, KATHRIN LAMPERT, RALPH TOLLRIAN

Comparison of genotypic variability in a *Daphnia pulex* population before and after fish predation

EB.32

SUSANNE KÜHNEL, FELIX BECKMANN, ALEXANDER KUPFER, LENNART OLSSON

Evolution at an end – the cloaca of caecilian amphibians

EB.33

MAREIKE KLINGER, HENDRIK MÜLLER, LENNART OLSSON

Miniaturization and ossification of Pipoid frogs

EB.34

CONSTANZE SÄNGER, HENDRIK MÜLLER, LENNART OLSSON

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CHRISTOPHER ARNOLD, MICHAEL NICKEL

A vesicular secretory cell type in the marine Demosponge *Collosporgia auris*

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MICHAEL NICKEL, CORINA SCHEER, CHRISTOPHER ARNOLD, JÖRG U. HAMMEL, JULIA HERZEN, EMMANUELLE RENARD, CAROLE BORCHIellini, ALEXANDER ERESKOVSKY, FELIX BECKMANN

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Bending behaviour of barn owl feather vane

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Good Vibrations at Insect Legs

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TANJA ZIESMANN, HELMUT SCHMITZ, TOBIAS KOHL, HORST BLECKMANN

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Responses to electrosensory input from the Schnauzenorgan in the trigeminal motor nucleus of the weakly electric fish, *Gnathonemus petersii*

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ON and OFF olfactory receptor neurons on the cockroach antenna: antagonistic responses to oscillating changes in odor concentration

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Determination and functional differentiation of the δ -ENaC subunit in human epithelial tissue

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TINA CHRISTMANN, JUDITH SEMMLER, WOLF-MICHAEL WEBER

Analyzing CFTR plasma membrane insertion following cAMP activation in different human cell lines

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BARBARA LECIEJEWSKI, NADINE BANGEL-RULAND, KATJA SOBCZAK, WOLF-MICHAEL WEBER

Transfer of CFTR-mRNA to restore impaired CFTR function

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KARIN ULICZKA, HOLGER HEINE, THOMAS RÖDER

Activation of the transcription factor dFoxO and characterization of dFoxO-dependent immune reactions in the respiratory epithelium of the fruit fly *Drosophila melanogaster*

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CHRISTINE FINK, KERSTIN ISERMANN, JETTE SEILER, THOMAS ROEDER

Immune competent cells in the intestine of *Drosophila melanogaster*

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AHMED ABDELSADIK, KERSTIN ISERMANN, THOMAS ROEDER

Hypoxia induces surveillance in the airway epithelium of the fruit fly *Drosophila melanogaster*

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SABINE PREDEHL, DANIELA KÖMPF, ANNA BACHMANN, STEFFI RENK, JOHANNA ANIGE, FRANK GEHRING, EGBERT TANNICH, IRIS BRUCHHAUS

Defining *Plasmodium falciparum* var gene domains that cause binding to the human endothelial receptor ICAM-1

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GUSTAVO MAKERT, NICOLAS DELAROQUE, SEBASTIAN ULBERT, MATTHIAS GIESE

Development of a new method strategy to protect the honey bee *Apis mellifera* against *Varroa destructor* and its associated viruses

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MIRIAM MARASLIOGLU, SAMIR EL MOUSSAOUI, DIRK HENRICH, MARK LEHNERT, ROLAND PRINZINGER, ELKE SCHLEUCHER, INGO MARZI

Investigations on hepatic injury and the immunomodulatory effect of chronic alcohol exposure using a transgenic *cis*-NF- κ B^{EGFP} reporter gene mouse (Supported by DFG LE 1346/2-1)

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SANDRA GÖTZE, REINHARD SABOROWSKI

Proteasomal activity during the larval development of the European lobster, *Homarus gammarus*

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SANDRA TIPPEL, REINHARD SABOROWSKI

Polymorphism of digestive enzyme in the midgut gland of North Sea shrimp, *Crangon crangon*

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Digestive enzymes, pH, and the degradation of marine algae by invertebrates

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CORA R. ALBRECHT¹, STEFANIE KREPPPEL, LARS GUTOW, REINHARD SABOROWSKI

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Extracellular alkaline phosphatases from European lobster (*Homarus gammarus*) - purification and sequence analysis

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Regulation of organ size in response to environmental triggers – comparative aspects

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Waste not, want not – Thermoregulation in male Daubenton's bats

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Visualizing morphological and functional changes in brown adipose tissue of cold acclimated mice

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JONATHAN BANK, ANSGAR POPITZ, RALF ELVERT, GERHARD HELDMAIER, CAROLA W. MEYER

Temperature preferences of wildtype and UCP1-KO mice in a thermal gradient

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ANNA DEWERT, CORNELIA EXNER, GERHARD HELDMAIER, CAROLA W. MEYER

Behavioural thermoregulation in wildtype and UCP1-KO mice

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Talking while walking - locust leg afferents activate neuromodulatory descending DUM neurons of the suboesophageal ganglion

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Peptidomics and processing of brain-gut peptides in the fruit fly *Drosophila melanogaster*

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LISA FENK, AXEL SCHMID

A Comparison of the Eye Muscles in a Ctenid and a Sparassid Spider

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STEFANIE STIEB, ULRICH HOEGER

Lipoprotein endocytosis and storage in hemocytes of the crayfish, *Astacus leptodactylus*.

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Lipid accumulation and metabolism in polychaete spermatogenesis.

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Tracing hemocyanin and its possible function in the red-blooded planorbid snails

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CHRISTOPH KÜHNE, EVEN SOLEM, RAFAEL GRONEBERG, CUMHUR KAYA, FRANK DEPOIX, WOLFGANG GEBAUER, BERNHARD LIEB, JÜRGEN MARKL

Structure of the 4x6mer hemocyanin from the mud shrimp *Callinassa truncata*

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SAMANTHA SCHERBAUM, BEYHAN ERTAS, CINDY HEFENBROCK, THORSTEN BURMESTER

Recombinant insect hexamerin and arthropod hemocyanin

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Brain metabolism of diving mammals: O₂-supply vs. O₂-protection

PH.30

JASMIN LINDNER, MARCO SCHNEUER, U. NICOLE CZECH, P. LARS FOLKOW, THORSTEN BURMESTER

1000 meters beyond the sea: Remarkable performance requires exceeding strategies - Biochemical mechanisms in hooded seal brain (*Cystophora cristata*)

PH.31

SVEN FLACHSBARTH, MARCO SCHNEUER, URSULA SIEBERT, THORSTEN BURMESTER

The harbour seal: A mammal adapted for short term diving?

PH.32

NATALIE ROTERMUND, MIRIAM BLANK, THORSTEN BURMESTER

Analysis of cytoglobin function in cell culture

PH.33

JULIA MARXEN, CHRISTIAN PICK, THORSTEN BURMESTER

Identification of four hemocyanin subunits in the freshwater shrimp *Caridina japonica* (Decapoda, Malacostraca)

PH.34

STEFANIE LILLA, MARCO SCHNEUER, U. NICOLE CZECH, P. LARS FOLKOW,
THORSTEN BURMESTER

Biochemical mechanisms of hypoxia tolerance: Gen expression of oxidative markers in various brain regions of the harp seal (*Pagophilus groenlandicus*)

Poster PH.35

KATHARINA KRUSZEWSKI, MIRIAM BLANK, THORSTEN BURMESTER

Globin origins: Analyzing the globin repertoire in lampreys

Zoological Systematic

ZS.1

HARALD LETSCH, MICHAEL RAUPACH, BIRGIT GEMEINHOLZER, HANS-PETER KLENK, GERHARD HASZPRUNAR, JOHANN-WOLFGANG WÄGELE

The DNA Bank Network - A service for Scientific Research

ZS.2

SASKIA BRIX, TORBEN RIEHL, KAREN JESKULKE, AMY DRISKELL

Barcoding deep-sea Isopoda

ZS.3

SILKE LAAKMANN, INGA MOHRBECK, THOMAS KNEBELSBERGER, SANDRA DITZLER, MICHAEL RAUPACH

The marine fauna of the North Sea: species identification using molecular methods

ZS.4

NIKOLAUS ELSNER, ANGELIKA BRANDT

Deep-sea isopod biodiversity and distribution in the Sea of Japan and the Kuril–Kamchatka area

ZS.5

TORBEN RIEHL

Comparative analysis of mtDNA and nuclear gene fragments for DNA barcoding of macrostyliid isopods

ZS.6

FABIAN KILPERT, LARS PODSIADLOWSKI

Significant mtDNA rearrangements within the Amphipoda (Crustacea: Peracarica)

ZS.7

VERENA KUTSCHERA, JOACHIM T. HAUG, CAROLIN HAUG, ANDREAS MAAS, DIETER WALOBEK

Pleon morphology of *Anaspides tasmaniae* THOMSON, 1894 (Crustacea, Malacostraca) investigated by using new imaging techniques

ZS.8

CLAUDIA LAURENZANO, CHRISTOPH D. SCHUBART

Genetic differentiation of widespread fiddler crab species (Brachyura: Ocypodidae: *Uca*) along the tropical western Atlantic

ZS.9

PETER KOLLER, NICO RAMISCH, CHRISTOPH D. SCHUBART

Revealing Unexpected Diversity Among Indo-Pacific Mangrove Crabs of the Family Sesarmidae (Decapoda: Brachyura): The Genus *Parasesarma* DE MAN, 1895

ZS.10

MARKUS KOCH

Western Australian troglofauna and the biodiversity and phylogeny of the Diplura (Hexapoda)

ZS.11

JANUS BORNER, CARINA EDEL, NATALIJA WINOKUROWA, SAMANTHA SCHERBAUM, THORSTEN BURMESTER, CHRISTIAN PICK

Evolution of amblypygid and uropygid hemocyanins and implications for arachnid phylogeny

ZS.12

MEIK NEUFURTH, BERNHARD LIEB, WOLFGANG GEBAUER, JÜRGEN MARKL

Preliminary sequence data of cerithioid mega-hemocyanin

ZS.13

ACHIM MEYER, BERNHARD LIEB

Comparing phylogenomic and amplicon based tree topologies to infer deep molluscan phylogeny

ZS.14

ADINA MWINYI, XAVIER BAILLY, SARAH BOURLAT, ULF JONDELIUS, DTJ LITTLEWOOD, LARS PODSIADLOWSKI

Basal bilaterian or early divergent deuterostome? The phylogenetic position of Acoela as revealed by the complete mitochondrial genome of *Symsagittifera roscoffensis*

ZS.15

MAXIMILIAN P. NESNIDAL, MARTIN HELMKAMPF, IRIS BRUCHHAUS, BERNHARD HAUSDORF

Compositional heterogeneity and phylogenomic inference of metazoan relationships

ZS.16

JANINA LEHRKE, LARS PODSIADLOWSKI

Phylogenetic relationships of Echiura (spoonworms) based on molecular data and implications for echiuran character evolution

ZS.17

ANJA GOLOMBEK, GÜNTER PURSCHKE, TORSTEN H. STRUCK

Phylogenetic position of the supposedly paedomorphic species *Apharyngtus punicus* and Dinophilidae (Annelida) using mitogenomic data

ZS.18

SASKIA BRAUER, HARALD HAUSEN

Ultrastructure of prostomial sense organs hints to a closer relationship of the annelid taxa Cirratulidae and Flabelligeridae

ZS.19

ANGELA SCHMITZ, KARL-L. SCHUCHMANN

Phylogeny and taxonomy of the hummingbird genus *Topaza* based on continuous plumage color spectral data using generalized frequency coding.

ZS.20

ALEXANDER KIENEKE, DIEGO FONTANETO

Holocene population history of common marine gastrotrich species in the North Sea / Baltic Sea area inferred from mtDNA sequence data



ab Grindelhof - Richtung Rathausmarkt, Hauptbahnhof/ZOB, Marco-Polo-Terrassen

Abfahrtszeiten Montag bis Freitag

0	09B 28B 48B	12	02 12A 22 32A 42 52A
1		13	02 12A 21 31A 42 52A
2		14	02 12A 22 32A 42 52A
3		15	02 12A 22 32A 42 52A
4		16	02 12A 22 32A 42 52A
5	00B 20B 37B 52B	17	02 12A 22 32A 42 52A
6	07B 26B 36A 50	18	02 12A 22 32A 44 54A
7	00A 12 22 32A 42 52A	19	04 14A 24 34A 44 54
8	02 12A 22 32A 42 52A	20	04 14 24 34 44 54B
9	02 12A 22 32A 42 52A	21	04B 13B 23B 33B 49B
10	02 12A 22 32A 42 52A	22	09B 29B 49B
11	02 12A 22 32A 42 52A	23	09B 29B 49B

Abfahrtszeiten Sonnabend

0	09B 28B 48B	12	01B 11 21B 31 41B 51
1		13	01B 11 21B 31 41B 51
2		14	01B 11 21B 31 41B 51
3		15	01B 11 21B 31 41B 51
4		16	01B 11 21B 31 41B 51
5		17	01B 11B 21B 31B 41B 51B
6	59B	18	01B 11B 21B 31B 41B 51B
7	25B 45B	19	01B 11B 21B 31B 41B 51B
8	05B 25B 45B	20	01B 11B 21B 31B 41B 51B
9	05 25 41B 51	21	01B 09B 19B 29B 49B
10	01B 11 21B 31 41B 51	22	09B 29B 49B
11	01B 11 21B 31 41B 51	23	09B 29B 49B

Abfahrtszeiten Sonn- und Feiertags

0 09B 28B 48B	12 19B 39B 59B
1	13 19B 39B 49B 59B
2	14 09B 19B 29B 39B 49B 59B
3	15 09B 19B 29B 39B 49B 59B
4	16 09B 19B 29B 39B 49B 59B
5	17 09B 19B 29B 39B 49B 59B
6	18 09B 19B 29B 39B 49B 59B
7	19 09B 19B 29B 39B 49B 59B
8 39B 59B	20 09B 19B 29B 39B 49B 59B
9 19B 39B 59B	21 09B 19B 29B 49B
10 19B 39B 59B	22 09B 29B 49B
11 19B 39B 59B	23 09B 29B 49B

Linienweg Haltestellen ab Grindelhof Fahrzeit Preis Tarifzone

o o Universität/Staatsbibliothek	2	2	1,30	000
o o Bf. Dammtor	4	4	1,30	
o o U Stephansplatz	6	6	1,70	
o o U Gänsemarkt	8	8		
o o U S Jungfernstieg	9	9		
o B Rathausmarkt	11	11		
o Gerhart-Hauptmann-Platz	12			
o HBF/Mönckebergstraße	14			
o Hauptbahnhof/ZOB	16			
o Rathausmarkt (Petrikirche)	12			
o Brandstwiete	14			
o Bei St. Annen	15			
o Am Dalmannkai	17			
A Marco-Polo-Terrassen	18	1,70	000	

Gültigkeit: 17.08.2010 - 11.12.2010. Alle Angaben ohne Gewähr. geofox1
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ab Grindelhof - Richtung Wildacker

Abfahrtszeiten Montag bis Freitag

0	08 28 48	12	07 17 27 37 47 57
1		13	07 17 27 37 47 57
2		14	07 17 27 37 47 57
3		15	07 17 27 37 47 57
4		16	07 17 27 37 47 57
5		17	07 17 27 37 47 57
6	15 25 35 45 55	18	07 17 27 37 47 57
7	05 17 27 37 47 57	19	07 17 27 37 47 57
8	07 17 27 37 47 57	20	07 17 27 37 48 58
9	07 17 27 37 47 57	21	08 18 38 58
10	07 17 27 37 47 57	22	18 38 58
11	07 17 27 37 47 57	23	18 28 48

Abfahrtszeiten Sonnabend

0	08 28 48	12	05 15 25 35 45 55
1		13	05 15 25 35 45 55
2		14	05 15 25 35 45 55
3		15	05 15 25 35 45 55
4		16	05 15 25 35 45 55
5		17	05 15 25 35 45 55
6	04 24 44	18	05 15 25 35 45 55
7	04 24 44	19	05 15 25 35 45 55
8	04 24 44	20	05 15 28 38 48 58
9	05 25 45	21	08 18 38 58
10	05 15 25 35 45 55	22	18 38 58
11	05 15 25 35 45 55	23	18 28 48

Abfahrtszeiten Sonn- und Feiertags

0	08 28 48	12	04 24 44
1		13	04 14 24 34 44 54
2		14	04 14 24 34 44 54
3		15	04 14 24 34 44 54
4		16	04 14 24 34 44 54
5		17	04 14 24 34 44 54
6		18	04 14 24 34 44 54
7		19	04 14 24 34 44 54
8	05 25 45	20	04 18 28 38 48 58
9	05 25 45	21	08 18 38 58
10	05 25 45	22	18 38 58
11	05 24 44	23	

Linienweg Haltestellen ab Grindelhof Fahrzeit Preis Tarifzone

o	Bundesstraße	3	1,30	000
o	U Schlump	6		101 103
o	Schlankreye	9		000 101 103
o	Kaiser-Friedrich-Ufer	10		101 103
o	Schulweg	13	1,30	
o	U Osterstraße	15	1,70	103
o	Apostelkirche	17		
o	Sartoriusstraße	18		
o	Högenstraße	20		
o	Langenfelder Damm	23		
o	Basselweg	24		
o	Volksparkstraße	28	1,70	101 203
o	BAB-Auffahrt Stellingen	30	2,75	203
o	Wördemanns Weg	32		
o	Reichsbahnstraße	33		
o	Mühlenuweg	34		
o	Eidelstedter Platz	36		
o	A Eidelstedt Zentrum	38		
o	Pflugacker	39		
o	Furchenacker	40		
o	Dallbregen	41		
o	Grenzacker	42		
o	Pinneberger Chaussee	43		
o	Wildacker	45	2,75	203

Gültigkeit: 17.08.2010 - 11.12.2010. Alle Angaben ohne Gewähr. geofox2
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ab Grindelhof - Richtung Hauptbahnhof/ZOB

Abfahrtszeiten Montag bis Freitag

0	04a 14 34 54a	12	00 05 10 15 20 25 30 35 40 45 50 55
1		13	00 05 10 15 20 25 30 35 40 45 50 55
2		14	00 05 10 15 20 25 30 35 40 45 50 55
3		15	00 05 10 15 20 25 30 35 40 45 50 55
4	23 55	16	00 05 10 15 20 25 30 35 40 45 50 55
5	18 28 38 48 58	17	00 05 10 15 20 25 30 35 40 45 50 55
6	10 20 30 40 45 50 55	18	00 05 10 15 20 25 30 35 40 45 50 55
7	01 05 10 15 20 25 30 35 40 45 50 55	19	00 05 10 15 19 24 29 34 39 44 49 54 59
8	00 05 10 15 20 25 30 35 40 45 50 55	20	04 09 14 19 24 34 44 54
9	00 05 10 15 20 25 30 35 40 45 50 55	21	04 14 24 34 43 50
10	00 05 10 15 20 25 30 35 40 45 50 55	22	00 10 20 30 40 47 57
11	00 05 10 15 20 25 30 35 40 45 50 55	23	07 17 24 34 44 54

Abfahrtszeiten Sonnabend

0	04 14 34 54	12	04 09 14 19 24 29 34 39 44 49 54 59
1	14 34 54	13	04 09 14 19 24 29 34 39 44 49 54 59
2	14 34 54	14	04 09 14 19 24 29 34 39 44 49 54 59
3	14 34 54	15	04 09 14 19 24 29 34 39 44 49 54 59
4	14 34	16	04 09 14 19 24 29 34 44 54
5	00 18 38 58	17	04 14 24 34 44 54
6	19 41	18	04 14 24 34 44 54
7	01 21 41	19	04 14 24 34 44 54
8	01 21 43 52	20	04 14 24 34 44 54
9	03 12 23 29 34 39 44 49 54 59	21	04 14 24 34 43 50
10	04 09 14 19 24 29 34 39 44 49 54 59	22	00 10 20 30 40 47 57
11	04 09 14 19 24 29 34 39 44 49 54 59	23	07 17 34 54

Abfahrtszeiten Sonn- und Feiertags

0 14 34 54	12 00 10 20 30 40 50
1 14 34 54	13 00 10 20 30 40 50
2 14 34 54	14 00 10 20 30 40 50
3 14 34 54	15 00 10 20 30 40 50
4 14 34	16 00 10 20 30 40 50
5 00 20 40	17 00 10 20 30 40 50
6 00 20 40	18 00 10 20 30 40 50
7 00 20 40	19 00 10 20 30 40 50
8 00 20 40 50	20 00 10 20 30 40 50
9 00 10 20 30 40 50	21 00 10 20 30 40 50
10 00 10 20 30 40 50	22 00 10 20 30 40 47 57
11 00 10 20 30 40 50	23 07 17 34 54

a = dienstags + mittwochs + donnerstags + freitags

Linienweg Haltestellen ab Grindelhof Fahrzeit Preis Tarifzone

o	Universität/Staatsbibliothek	2	1,30	000
o	Bf. Dammtor	4		
o	U Stephansplatz	6	1,30	
o	U Gänsemarkt	8	1,70	
o	U S Jungfernstieg	9		
o	Rathausmarkt	11		
o	Gerhart-Hauptmann-Platz	12		
o	HBF/Mönckebergstraße	14		
o	Hauptbahnhof/ZOB	16	1,70	000

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ab Grindelhof - Richtung Nedderfeld, U Niendorf Markt, A Burgwedel

Abfahrtszeiten Montag bis Freitag

0 13 33A 53	12 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
1	13 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
2	14 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
3	15 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
4 53	16 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
5 13 33 53	17 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
6 03 13 23 33 43 53	18 02 07B 12 16B 21 26B 31 36B 41 46B 51 56B
7 03 13 21 31 41 51 56B	19 01 06B 11 16B 21 26B 31 36 41B 46 51B 56
8 01 06B 11 17B 22 27B 32 37B 42 47B 52 57B	20 01B 06 11B 16 21B 26 31B 36 41B 46 54
9 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B	21 04 14 23 33A 43 53A
10 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B	22 03 13A 23 33A 43 53A
11 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B	23 03A 13A 23 33B 43A 57B

Abfahrtszeiten Sonnabend

0 13 33A 53	12 01 06B 11 16B 21 26B 31 36B 41 46B 51 56B
1 06A 26A 46A	13 01 06B 11 16B 21 26B 31 36B 41 46B 51 56B
2 06A 26A 46A	14 01 06B 11 16B 21 26B 31 36B 41 47B 52 57B
3 06A 26A 46A	15 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
4 06A 26A 49	16 02 07B 12 17B 22 27B 32 37B 42 47B 52 57B
5 09A 29 49A	17 02 12 22 32 42 52
6 09 29A 49	18 02 12 22 32 42 52
7 09 29 49	19 02 12 22 32 44 54
8 09 29 49 59A	20 04 14 24 34 44 54
9 09 21 31A 41 51 56B	21 04 14 23 33A 43 53A
10 01 06B 11 16B 21 26B 31 36B 41 46B 51 56B	22 03 13A 23 33A 43 53A
11 01 06B 11 16B 21 26B 31 36B 41 46B 51 56B	23 03A 13A 23 33B 43A 57B

Abfahrtszeiten Sonn- und Feiertags

0	13 33A 53	12	04 14A 24 34 44 54
1	06A 26A 46A	13	04 14 24 34 44 54
2	06A 26A 46A	14	04 14 24 34 44 54
3	06A 26A 46A	15	04 14 24 34 44 54
4	06A 26A 49A	16	04 14 24 34 44 54
5	09A 29 49A	17	04 14 24 34 44 54
6	09 29A 49	18	04 14 24 34 44 54
7	09A 29 49A	19	04 14 24 34 44 54
8	09 29 44 54A	20	04 14 24 34 44 54
9	04 14A 24 34A 44 54A	21	04 14 23 33A 43 53A
10	04 14A 24 34A 44 54A	22	03 13A 23 33A 43 53A
11	04 14A 24 34A 44 54A	23	03A 13A 23 33B 43A 57B

Linienweg	Haltestellen ab Grindelhof	Fahrzeit	Preis	Tarifzone
o	Bezirksamt Eimsbüttel	2	1,30	000
o	U Hoheluftbrücke	5	1,30	000 101 103
o	Eppendorfer Weg (Ost)	7	1,70	101 103
o	Gärtnerstraße	8		
o	Veilchenweg	10		
o	Brunsborg	12		
o	Siemersplatz	14	1,70	101 103 203
B	Nedderfeld	16	2,75	103 203
o	Niendorfer Straße	17		203
o	Vogt-Cordes-Damm	19		
A	U Niendorf Markt	21		
o	Bindfeldweg	24		
o	Freizeitbad Bondenwald	25		
o	Sellhopsweg/Albertinen-Haus	28		
o	Frohmestraße (Mitte)	29		
o	Oldesloer Straße	32		203 303
o	Peter-Timm-Straße	34		303
o	Burgwedelkamp	37		
o	Graf-Otto-Weg	38		
o	A Burgwedel	39	2,75	303

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