



# General Information

## Mobility

Public transport  
Tram & Bus schedules available:



or via Android-App:



Taxi Kassel +49 561 88111

Minicar Kassel +49 561 811081

## Wi-Fi

You can use the guest account to get access to "eduroam" Wi-Fi

Username: g15  
Password: DZGKassel/2023

## DZG Info Desk & Coat Check

If you have any questions, please don't hesitate to refer to the DZG Info desk on the ground floor (see Map).

Coats and luggage can be stored during opening hours at the Coat Check.

8:00 a.m. - 09:30 p.m.

# 115th Meeting of the German Zoological Society

4th-8th September 2023

# Pocket Guide



Abstract booklet and detailed program booklet can be downloaded at:  
<https://dzg-meeting.de>



UNIKASSEL  
VERSITÄT

Monday 04.09.2023

9:00 - 20:00  
LH-3

Neuroethology Satellite Symposium

9:00 - 20:00  
LH-4

SpiderFest Satellite Symposium

Tuesday 05.09.2023

9:00 - 13:00  
LH-4

Multiscale Clocks Workshop:  
Unlocking the rhythms of life with  
multiscale clocks

13:30 - 15:00  
SR-3

DZG Board Meeting

13:30 - 15:00  
SR-2

Subject Group Speaker Meeting

15:00 - 16:15  
SR-3

Advisory Board Meeting

Main Meeting

Welcome Address:

DZG President Prof. Dr. Gabriele Uhl,  
Local organizer Prof. Dr. Monika Stengl,  
University President Prof. Dr. Ute Clement,  
Ottoneum Director Prof. Dr. Kai Füldner:

History of Zoology in Kassel,  
Music

17:00 - 18:30  
LH-2

Socializing/Poster hanging

Wednesday 06.09.2023

9:00 - 10:00  
LH-2

Pawel Burkhardt | Bergen, NOR  
The deep evolutionary origins of neurons

10:15 - 10:45  
LH-2

Poster Pitch 1 (Odd numbers)

Break (10:45 - 11:15)

Subject Group Talks (11:15 - 13:15)

11:15 DEV  
SYS LH-3

ECO LH-4 EVO LH-6 MOR LH-5

P. Steinmetz  
A population of feeding-responsive, multipotent stem-like cells in the sea anemone *Nematostella*

K. Dausmann  
Everything upside down in Oz? Flexible employment of torpor in squirrel gliders (*Petaurus norfolkensis*) as an adaptation to unpredictable climate

K. Rohlfing  
Insights into the mechanisms of sex bias in the dragonfly flea beetle, *Altica lythri*

B. Josten\*  
Developmental shape changes in the head of the dragonfly *Libellula depressa* (*Odonata: Libellulidae*) revealed by geometric morphometrics

11:30

B. Naumann  
Developmental repatterning of the nasal-chemosensory organs during the evolution of terrestrial reproductive modes in frogs

Subject Group Talks (11:15 - 13:15)

DEV  
SYS LH-3

ECO LH-4 EVO LH-6 MOR LH-5

E. Levin  
Alcohol use by hornets

A. Brandt  
Evolution of alternative reproductive systems in *Bacillus* stick insects

A. Urban\*  
Successful crab invader in the Kiel Canal - The secret lies in reproductive biology

11:30

Wednesday 06.09.2023

Subject Group Talks (11:15 - 13:15)

DEV  
SYS LH-3

ECO LH-4 EVO LH-6 MOR LH-5

U. Rempe  
...amino-acid-substitutions and attempts to deduce the phylogeny of well-preserved fossil human skulls

W. Rajewicz\*  
...Echinophthirioides horridus, on marine mammals

13:00

Break (13:15 - 14:30) (self organized)

Invited Talks (14:30 - 16:00)

DEV/MOR LH-5

ECO/EVO LH-6

A. Klimovich  
Phylogeny-ontogeny relations in the cell type evolution across Metazoa

P. Brand  
Behavioral evolution in a complex world of flies, food, and love

M. Herranz  
The enigmatic world of mud dragons (*Kinorhyncha*): insights into morphology, development and evolution

C. Rafaluk-Mohr  
Are long lived parasites more virulent?

Subject Group Talks (16:00 - 16:45)

MOR LH-5

EVO LH-6

B. Talukder\*  
How do spiders smell: mystery solved?

S. Steiger  
Evolutionary change in the benefit of parental care

M-L. Le\*  
Comparative study of central nervous system in *Fritillaria* (*Appendicularia, Tunicata*)

M. Baur\*  
Immune priming: causes and implications for pathogen evolution in the model organism *Tribolium castaneum*

S. Treter\*  
The genomic and neural constituents of ant olfaction in the light of social complexity

J. Seal  
Microbiome structure of symbiotic and symbiotic associations of fung-gardening ants

Poster Session 1 / Break

16:45 - 18:30  
Poster area

Odd numbers

Public Talk (19:00 - 20:30) LH-1

Christoph Scherber | Bonn, GER

Arten adieu? Wie wir Artenvielfalt verlieren und wieder zurückgewinnen können

KEY

Lecture Hall

Seminar Room

Name\*: Student Presenter

9:00 - 10:00 LH-2	Yuko Ulrich   Jena, GER Social behaviour and disease dynamics in clonal ant colonies								
10:15 - 10:45 LH-2	Poster Pitch 2 (Even numbers)								
<b>Break (10:45 - 11:15)</b>									
<b>Subject Group Talks (11:15 - 13:15)</b>									
11:15	BEH LH-4	MOR LH-5	NEU LH-6	PHY LH-3					
T. Urca Reconstructing the visual capacity of the miniature silverleaf whitefly, <i>Bemisia tabaci</i>	M. Stüwe* Morphological changes of the cranial musculoskeletal system during the evolution of new trophic modes in South American Killifishes ( <i>Austrolebias</i> )	G. Bucher Molecular mapping of the neuroectoderm across phyla – conservation and divergence of brain regions between insects and vertebrates	Invited speaker C. Scholz How to respond to low oxygen: O <sub>2</sub> -sensing in mammalian cells and tissues						
P. Deppisch* <i>Drosophila</i> species from high latitudes can adapt their daily activity well to long photoperiods, but this ability does not depend exclusively on the neuropeptide PDF	M. Kelly Variation in mimicry accuracy: evolution and trade-offs in ant-mimicking spiders	M. Farnworth Mosaic evolution in the mushroom body lobes of a long-lived butterfly							
11:30									
Y. Wang* A circumplex model of affect in <i>Drosophila</i>	J. Riedel Evolution of phalangeal morphology in an ecomorphologic -al gecko radiation with incipiently expressed adhesive toe pads	E. Ehrhardt Development of Johnston's organ in the antennal nervous system of the locust							
11:45									
M. Oberweiser* Picking up good vibes: Variation of vibratory signals and the evaluation of signal quality in the spider <i>Pisaura mirabilis</i>	E. Tilic Hardly Venus's servant: Morphological adaptations of <i>Veneriserva</i> to an endoparasitic lifestyle and its phylogenetic position within Dorylidae (Annelida)	S. Sayin Dyadic Attraction and Allocentric Vectorial Integration Drive Density-Dependent Desert Locust Marching	A. Ozbek-Unal* Impact of the peripheral fat body clock on lipid metabolism and health in <i>Drosophila</i>						
12:00									
T. Conrad Talking to the kids - parental signalling in the burying beetle <i>Nicrophorus vespilloides</i>	S. Ginot How differing functional demands of mouthparts and sensory systems determine head shape and modularity in an insect	Y. Günzel* Do you smell what I smell? Social modulation of olfactory processing in locusts	J. Bossen Tracheal terminal cells in <i>Drosophila</i> show a limited immune response to avoid cell death						
12:15									
12:30	BEH LH-4	MOR LH-5	NEU LH-6	PHY LH-3					
T. Thünken Impact of inbreeding and parental care on offspring performance in the biparental cichlid fish <i>Pelvicachromis pulcher</i>	P. Rühr* Measurement and analysis of animal closing forces: Unlocking insights into micro- and macroevolution	J. Huster* Functional assessment of putative chemo co-receptors IR25a and IR93a of predator perception in <i>Daphnia</i>	M. Knop A mitochondrial sirtuin shapes the intestinal microbiota by controlling lysozyme expression						
12:45	R. Dor Adaptive predator-avoidance behavior in a globally introduced bird species	A. Pande* The Visual Systems of Crab Spiders and Running Crab Spiders: convergent or conserved?	S. H. Shoaib* Discovery and functional characterization of RYamide signaling in <i>Rhyacionia maderae</i>	M. Beck Comparative structural insights into insect and fungal chitin synthases and their inhibition by conventional pesticides					
13:00	I. Scharf What is shadow competition and where can it be found?	N. Brenner* Evolutionary genetics of convergent mimicry color patterns in bumblebees	R. Bigge* Dynamic contrast processing in the Hawkmoth visual system	B. Zeis Zooplankton is challenged by cyanobacteria: decline of energy reserves in <i>Daphnia magna</i>					
13:15									
14:30	BEH + SYS LH-4	NEU + PHY LH-6							
M. Bohn ManyPrimates - An infrastructure for collaboration in primate cognition research	C. Ferreira Social modulation of threat-evoked defensive responses								
14:45	C. Ewers The reconstruction of anthropogenic change	H. Falushynska Effects of warming on the metabolic disruption caused by a hypolipidemic drug gemfibrozil in a model marine bivalve <i>Mytilus edulis</i>							
15:00	A. Wisenthal Osmotolerance reflected in mitochondrial respiration of Blue Mussel populations from three different habitat salinities	R. Koll* Establishment of an Omics based biomonitoring pipeline: Fishes in the Elbe estuary							
15:15									
15:30									
15:45									
16:00	EVO LH-3	MOR LH-5	NEU + PHY LH-6						
A. Jacobsen* Evidence for incipient allochronic divergence over the lunar cycle in an intertidal Midge	F. Bäumler* Functional morphology of the raptorial forelegs in Mantodea (Insecta)	C. Spratte* Midsession reversal learning performance in harbor seals ( <i>Phoca vitulina</i> )							
16:15	J. Brand Support for a radiation of free-living flatworms in Lake Tanganyika	S. Züger* Material composition and properties of cuticular components of centipede forcipules	H. Yeganeghi* Age-related differences in the sleep of juvenile and adult zebra finches						
16:30	J. Stöckl Decoding the multimodal courtship signal of a parasitoid wasp	M. Horstmann Specific turbulence- and <i>Chaoborus</i> -induced morphs affect the streamlining properties of <i>Daphnia cucullata</i>	E. Dönmez* The muscle transcriptome of non-healthy harbour porpoises ( <i>Phocoena phocoena</i> ) hints at oxidative stress, but not hypoxia						
16:45	M. Dashtbali* The evolution of honest and dishonest signals of fighting ability	H. Müller Morphology of fast-flowing stream tadpoles in the Afrotropical family Arthroleptidae	R. Dallmann TimeTeller: A novel tool to investigate molecular circadian clock function in individuals						
17:00	<b>Break (17:00 - 17:30)</b>								
17:30	Werner-Rathmayer Prize Walther-Arndt Prize Horst-Wiehe Prize								
17:45	<b>Poster Session 2 / Break</b>								
19:00 - 21:00 Poster area	Even numbers								
<p><b>Ground Floor</b></p>									
<p><b>Second Floor</b></p>									

9:00 - 10:00 LH-2	Violetta Pilorz   Lübeck, GER The essence of light in life
10:15 - 11:15 LH-2	Round Table Discussion Clocks that time us
11:30 - 13:15 LH-2	Discussion Session Biological sex

**Break (13:15 - 14:00) (self organized)****Subject Group Meeting (14:00 - 14:30)**

DEV LH-6 ECO LH-3 NEU LH-5 SYS LH-4

**Interdisciplinary Symposium**14:30 - 16:30  
LH-2

Big Data - Big Questions

**Break (16:30 - 17:00)****Subject Group Meeting (17:30 - 18:00)**

BEH LH-4 EVO LH-5 MOR LH-3 PHY LH-6

**Student Awards & DZG General Meeting (LH-2) (18:00 - 19:00)****Buffet & Party (19:30 - Open end)**