

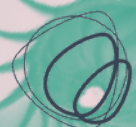
115TH MEETING OF THE GERMAN ZOOLOGICAL SOCIETY

September 4th-8th 2023



Deutsche
Forschungsgemeinschaft

U N I K A S S E L
V E R S I T Ä T



multiscale
clocks

Welcome Note

Dear colleagues,

While deciding to have fewer plenaries by established speakers, we shift the focus of the DZG 2023 to provide a podium for our young investigators and to bring all posters to the general attention. Therefore, each poster presenter will be part of the poster pitch, a one minute oral poster presentation.

The interdisciplinary research training group (RTG 2749/1) "Multiscale Clocks" houses the 115th DZG meeting in Kassel. Accordingly, next to the manifold exciting topics of lectures invited by the DZG-sections (Fachgruppen), the scientific topic of biological timing runs like a red thread through the conference. A workshop on biological timing will introduce concepts and terms of chronobiology and data analysis of coupled oscillators, while projects of the RTG are presented in a separate poster area together with an info-booth. Finally, in a round table discussion, the topic of biological clocks is further elucidated by interdisciplinary experts that answer questions of the audience.

The public evening lecture and panel discussion in German is free of charge for all interested. It will be moderated by members of the new Center for Sustainability at Kassel, offering the public an opportunity to voice concerns and to discuss latest information about the dangerous decline of species. The current public agenda: Gender Issues/Biological Sex is addressed in a lecture from the perspective of Biology. Furthermore, this year's Interdisciplinary Symposium "Big Data-Big Questions" will deal with new challenges and new methods/solutions that are connected to the exponential accumulation of scientific data.

Finally, as a specialty of the DOCUMENTA city Kassel, collaborations between scientists and artists in Kassel will be presented in addition to the scientific program.

We are very much looking forward to welcoming all of you in Kassel! Come and celebrate with us the 115th DZG with lots of interesting scientific discussions and a great party together!

The organising team :

Monika Stengl, Susanne Neupert and Thordis Arnold
RTG "Multiscale Clocks"



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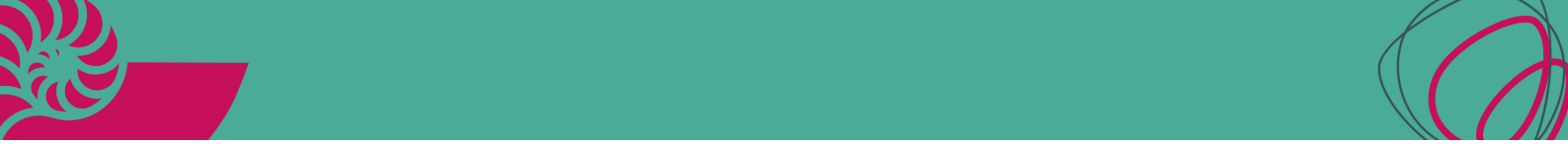
01	Map of building
02	Map of campus (simple)
03	Map of campus (detailed)
04	Legend

05	Program in detail:
05	Monday
05	Tuesday
06	Wednesday
12	Thursday
20	Friday

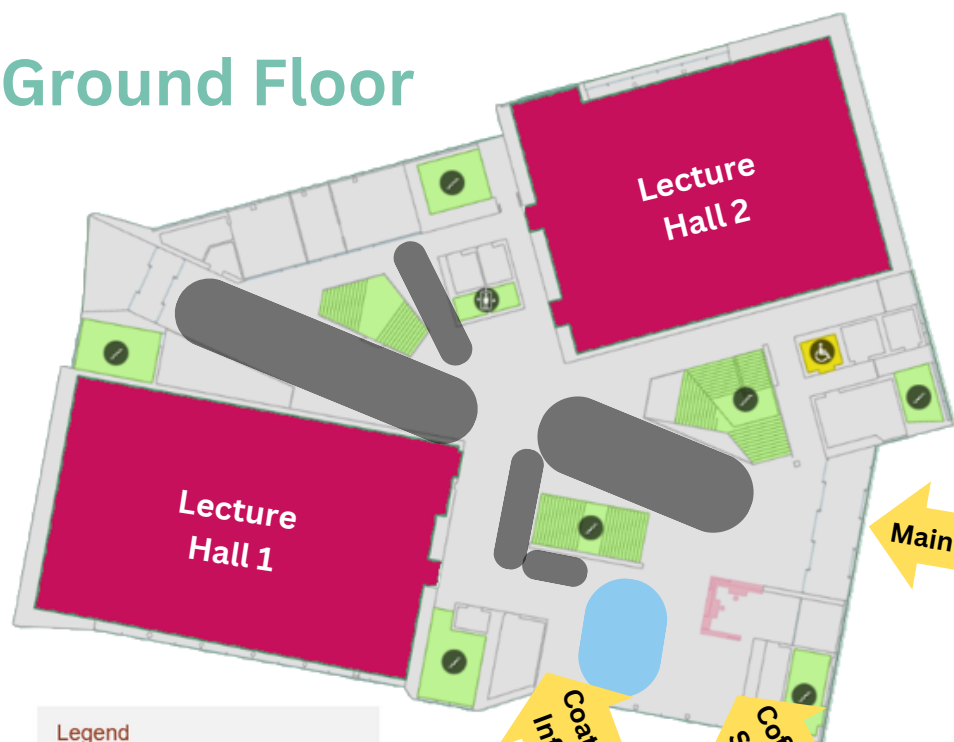
23	Voting rules
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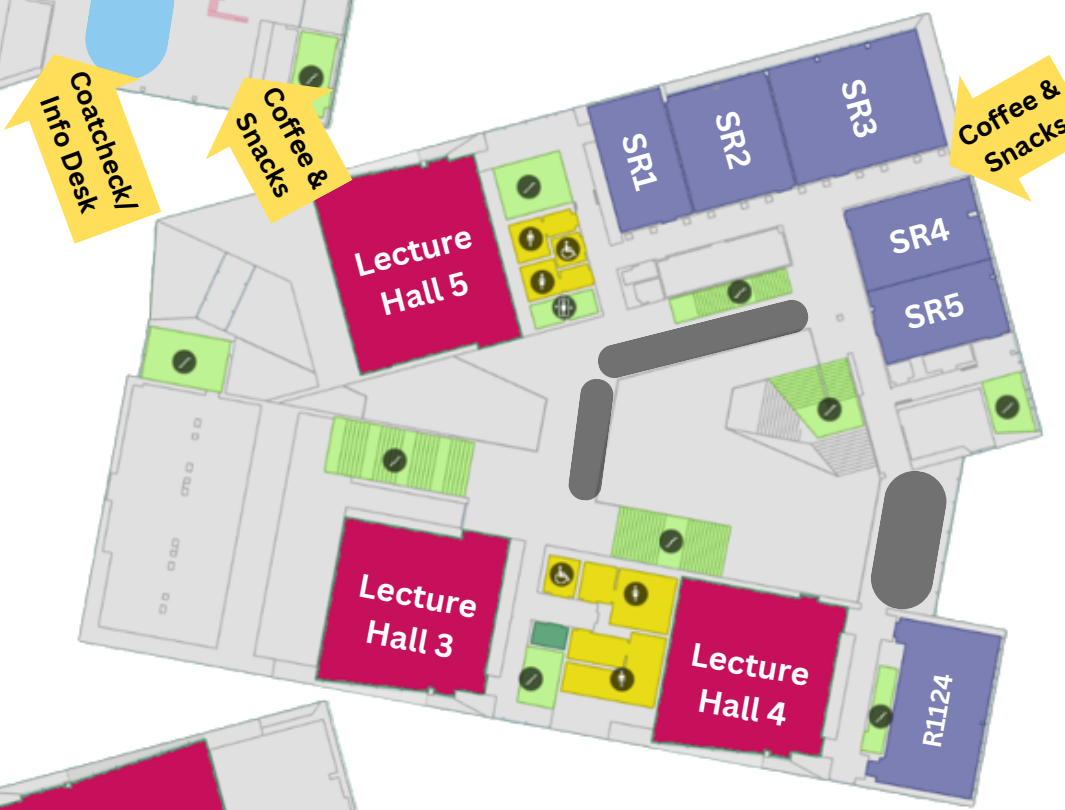


Ground Floor



Poster Area

First Floor



Legend

Elevators

Lecture hall

Seminar room

stairs and elevators

Toilets, Restrooms

Elevator

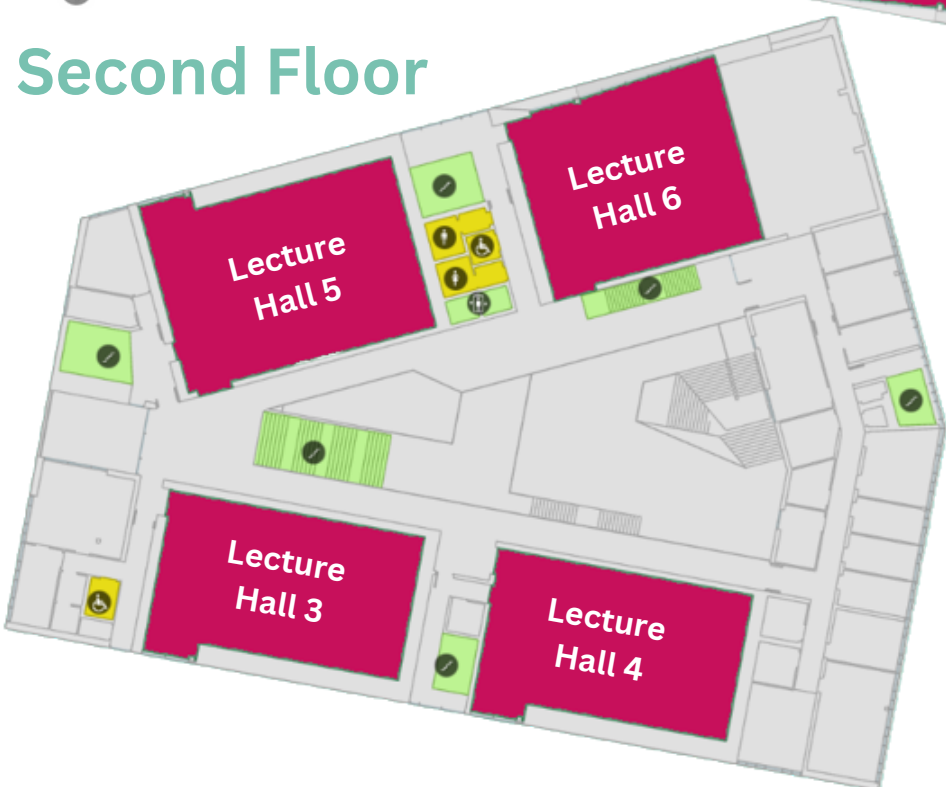
stairway

Toilet barrier-free

Toilet gentlemen

Toilet ladies

Second Floor



Sponsor Area





Färberei



Campus Center



City Center



Mensa



Haltplatz
Tram Linie 1 und 5
Buslinie 100
RegioTram RT1, RT4

Mittelring
Tram 3 und 6
Buslinie 12, 13

Weserspitze
Tram 3, 6 und 7
Buslinie 12, 13

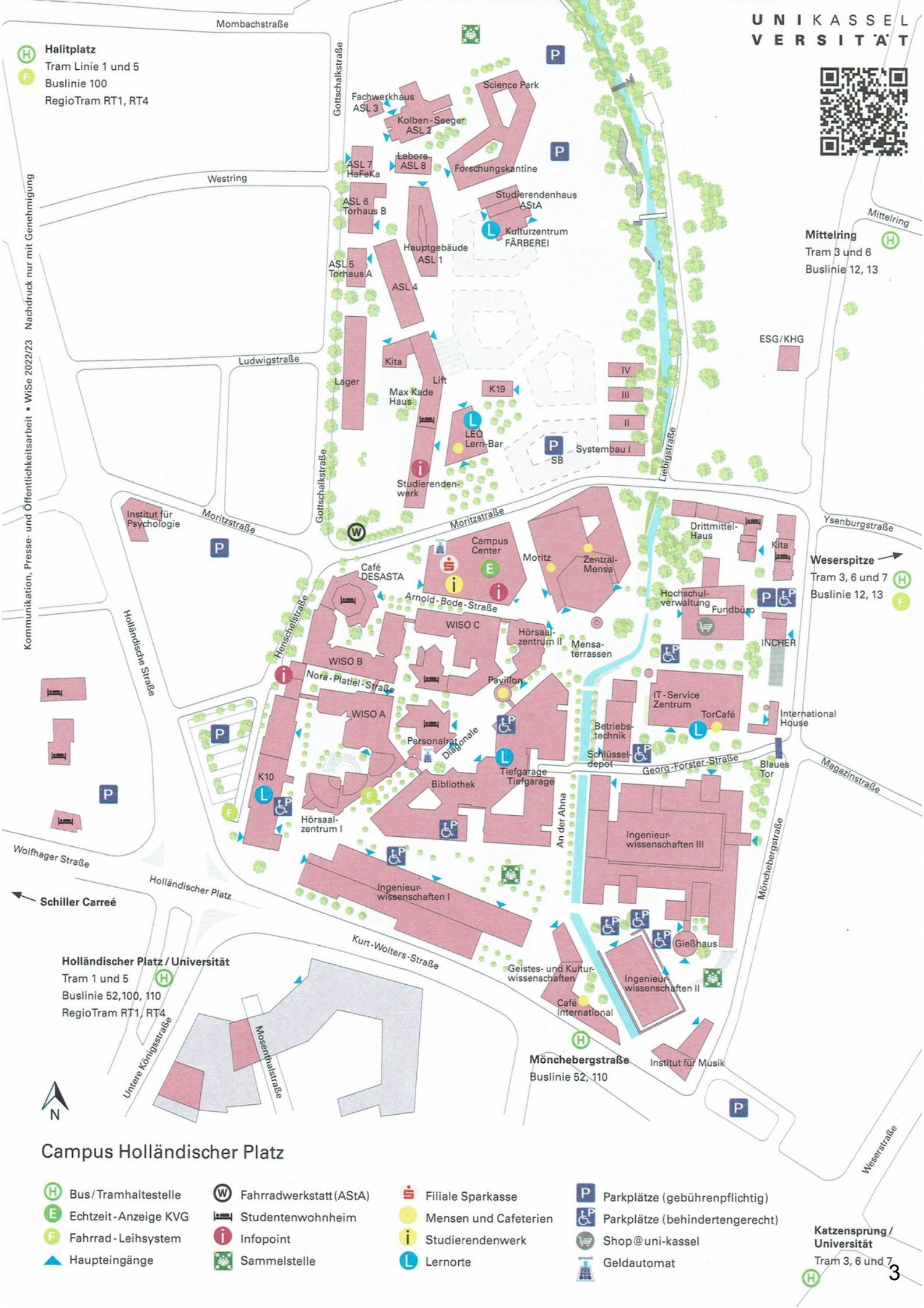
Holländischer Platz / Universität
Tram 1 und 5
Buslinie 52, 100, 110
RegioTram RT1, RT4

Mönchebergstraße
Buslinie 52, 110

Katzensprung / Universität
Tram 3, 6 und 7

Campus Holländischer Platz

- | | | | |
|----------------------|-------------------------|-----------------------|---------------------------------|
| Bus/Tramhaltestelle | Fahrradwerkstatt (AStA) | Filiale Sparkasse | Parkplätze (gebührenpflichtig) |
| Echtzeit-Anzeige KVG | Studentenwohnheim | Mensen und Cafeterien | Parkplätze (behindertengerecht) |
| Fahrrad-Leihsystem | Infopoint | Studierendenwerk | Shop@uni-kassel |
| Haupteingänge | Sammelstelle | Lernorte | Geldautomat |



Legend

- Behavioral biology (B)
- Developmental biology (D)
- Ecology (EC)
- Evolution (EV)
- Morphology (M)
- Neurobiology (N)
- Physiology (P)
- Systematics, Biogeography and Diversity (S)

Name* = student presenter



Program in Detail

Monday 04.09.2023

09:00 - 20:00
Lecture Hall 3

Neuroethology Satellite Symposium

09:00 - 20:00
Lecture Hall 4

SpiderFest Satellite Symposium

Tuesday 05.09.2023

09:00 - 13:00
Lecture Hall 4

Multiscale Clocks Workshop

Unlocking the rhythms of life with multiscale clocks

13:30 - 15:00
Seminar Room 3
Seminar Room 2

Meetings

Board meeting

Subject group speaker meeting

15:00 - 16:15
Seminar Room 3

Advisory board meeting

17:00 - 18:30
Lecture Hall 2

Welcome Address & Opening Ceremony

DZG President Prof. Dr. Gabriele Uhl,
Local Organizer Prof. Dr. Monika Stengl,
University President Prof. Dr. Ute Clement,
Ottoneum Director Prof. Dr. Kai Földner,
Music

19:00 onwards
Poster Area

Socializing/Putting up posters



Wednesday 06.09.2023

09:00 - 13:00
Lecture Hall 4

Plenary Lecture

Pawel Burkhardt

The deep evolutionary origins of neurons

10:15 - 10:45
Lecture Hall 2

Poster Pitch 1

(Odd numbers)

10:45 - 11:15

Break

11:15 - 13:15
Lecture Hall 3

Subject Group Talks

Developmental Biology + Systematics

11:15 - 11:30

Patrick R. H. Steinmetz

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

11:30 - 11:45

Benjamin Naumann

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

11:45 - 12:00

Thilo Schulze

Sex-specific differential gene expression focusing on reproduction during stolonization in the branching syllid *Ramisyllis kingghidorahi* (Annelida, Syllidae)

12:00 - 12:15

Nico Posnien

Single cells or single nuclei? Efficient analysis of cell type diversity for low amounts of input material?



Wednesday 06.09.2023

12:15 - 12:30

André P. Amaral*

Unraveling the biting past of the "non-biting midges"

12:30 - 12:45

Elizabeth Boshers* and Jon Seal

Phylosymbiosis of fungus-gardening ant symbiomes

12:45 - 13:00

Jan Erik Sedlmeier*

Sensitivity to mimicked neonicotinoid exposure varies across species and sex of non-target plant bugs (Heteroptera: Miridae)

13:00 - 13:15

Udo Rempe

Improving the phylogenetic tree of extant hominoid species by character weighting of amino-acid-substitutions and attempts to deduce the phylogeny of well-preserved fossil human skulls

11:15 - 13:15

Lecture Hall 4

Ecology

11:15 - 11:30

Kathrin Dausmann

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

11:30 - 11:45

Eran Levin

Alcohol use by hornets

11:45 - 12:00

Lea von Berg*

InsectMow - Development and Evaluation of insect- and spider-friendly mowing technique

12:00 - 12:15

Sebastian Köthe

Diversity of Insects in Nature protected Areas (DINA) – results from four years of transdisciplinary research on insect decline



Wednesday 06.09.2023

12:15 - 12:30

Yvonne Schumm

Different behavioural-ecological aspects of migratory European Columbiformes and their relevance for conservation

12:30 - 12:45

Jonas Henske*

Age-dependent perfume development in male orchid bees, *Euglossa imperialis*

12:45 - 13:00

Nikolaus Helmer

Developing a biohybrid entity for aquatic environment observations

13:00 - 13:15

Wiktorija Rajewicz*

The use of *Daphnia* as a living sensor in aquatic biohybrid systems

11:15 - 13:15

Lecture Hall 6

Evolution

11:15 - 11:30

Kim Rohlfing

Insights into the mechanisms of sex bias in the hybridogenetic flea beetle, *Altica lythri*

11:30 - 11:45

Alexander Brandt

Evolution of alternative reproductive systems in *Bacillus* stick insects

11:45 - 12:00

Dagmar Frisch

One clone to rule them all: population genomics of the water flea *Daphnia* in Arctic lakes (SW Greenland)

12:00 - 12:15

Athina Karapli-Petritsopoulou*

Phenotypic evolution of Arctic *Daphnia* linked to environmental change?



Wednesday 06.09.2023

12:15 - 12:30

Carolina Ortiz Movliav*

When it gets warm in winter: phenotypic plasticity in a cold adapted population of a range expanding spider

12:30 - 12:45

R. Reshma*

HSP90 as an evolutionary capacitor in *Tribolium castaneum*

12:45 - 13:00

Jule Neumann*

Interrelation of circalunar, circadian and photoperiodic time keeping in the marine midge *Clunio*

13:00 - 13:15

Carolina Peralta*

How moonlight sets the circalunar clock in *Clunio marinus*

11:15 - 13:15

Lecture Hall 5

Morphology

11:15 - 11:30

Benedikt Josten*

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

11:30 - 11:45

Anne Urban*

Successful crab invader in the Kiel Canal - The secret lies in reproductive biology

11:45 - 12:00

Nadezhna Rimskaya

The structure and development of the trophosome in the frenulates *Siboglinum fiordicum* and *Oligobrachia* sp

12:00 - 12:15

Fabio Oliveira

On the springtail jumping: a detailed and comparative morphological study of the jumping apparatus



Wednesday 06.09.2023

12:15 - 12:30

Julian Thomas*

Fluid origin, its physical properties and interactions with the substrate in the tarsal attachment pads of stick insects (Phasmatodea)

12:30 - 12:45

Sofia Arce

Larval aggregation of Erythraeidae mites in about 100 million years old Myanmar Amber: Seeking a host?

12:45 - 13:00

Ana Zippel*

Wood boring beetle larvae and the study of plant-parasitism in deep time

13:00 - 13:15

Anika Preuss*

Lousy attachment? – The exceptional attachment ability of the seal louse, *Echinophthirius horridus*, on marine mammals

13:15 - 14:30

Break (self organized)

14:30 - 16:00

Lecture Hall 5

Invited Talks

Developmental Biology + Morphology

14:30 - 15:15

Alexander Klimovich

Phylogeny-ontogeny relations in the cell type evolution across Metazoa

15:15 - 16:00

María Herranz

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



Wednesday 06.09.2023

14:30 - 16:00
Lecture Hall 6

Ecology + Evolution

14:30 - 15:15

Philipp Brand

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

15:15 - 16:00

Charlotte Rafaluk-Mohr

Are long lived parasites more virulent?

16:00 - 16:45
Lecture Hall 5

Subject Group Talks Morphology

16:00 - 16:15

Belal Talukder*

How do spiders smell: mystery solved?

16:15 - 16:30

Mai-Lee van Le*

Comparative study of the central nervous system in *Fritillaria* (Appendicularia, Tunicata)

16:30 - 16:45

Sandra Tretter*

The genomic and neural constituents of ant olfaction in the light of social complexity

16:00 - 16:45
Lecture Hall 6

Evolution

16:00 - 16:15

Sandra Steiger

Evolutionary change in the benefit of parental care

16:15 - 16:30

Moritz Baur*

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



Wednesday 06.09.2023

16:30 - 16:45

Jon Seal

Microbiome structure of dysbiotic and symbiotic associations of fungus-gardening ants

16:45 - 18:30

Poster Area

Poster Session 1 (Odd numbers)/

Break

19:00 - 20:30

Lecture Hall 1

Public Talk

Christoph Scherber

Arten adieu? Wie wir Artenvielfalt verlieren und wieder zurückgewinnen können

Thursday 07.09.2023

09:00 - 10:00

Lecture Hall 2

Plenary Lecture

Yuko Ulrich

Social behaviour and disease dynamics in clonal ant colonies

10:15 - 10:45

Lecture Hall 2

Poster Pitch 2

(Even Numbers)

10:45 - 11:15

Break



Thursday 07.09.2023

11:15 - 13:15
Lecture Hall 4

Subject Group Talks Behavioral Biology

11:15 - 11:30

Tomer Urca

Reconstructing the visual capacity of the miniature silverleaf whitefly, *Bemisia tabaci*

11:30 - 11:45

Peter Deppisch*

Drosophila species from high latitudes can adapt their daily activity well to long photoperiods, but this ability does not depend exclusively on the neuropeptide PDF

11:45 - 12:00

Yi Wang*

A circumplex model of affect in *Drosophila*

12:00 - 12:15

Morgan Oberweiser*

Picking up good vibes: Variation of vibratory signals and the evaluation of signal quality in the spider *Pisaura mirabilis*

12:15 - 12:30

Taina Conrad

Talking to the kids - parental signalling in the burying beetle *Nicrophorus vespilloides*

12:30 - 12:45

Timo Thünken

Impact of inbreeding and parental care on offspring performance in the biparental cichlid fish *Pelvicachromis pulcher*

12:45 - 13:00

Roi Dor

Adaptive predator-avoidance behavior in a globally introduced bird species

13:00 - 13:15

Inon Scharf

What is shadow competition and where can it be found?



Thursday 07.09.2023

11:15 - 13:15
Lecture Hall 5

Subject Group Talks Morphology + Evolution

11:15 - 11:30

Maximilian Stüwe*

Morphological changes of the cranial musculoskeletal system during the evolution of new trophic modes in South American Killifishes (*Austrolebias*)

11:30 - 11:45

Michael Kelly

Variation in mimicry accuracy: evolution and trade-offs in ant-mimicking spiders

11:45 - 12:00

Jendrian Riedel

Evolution of phalangeal morphology in an ecomorphological gecko radiation with incipiently expressed adhesive toepads

12:00 - 12:15

Ekin Tilic

Hardly Venus's servant— Morphological adaptations of *Veneriserva* to an endoparasitic lifestyle and its phylogenetic position within Dorvilleidae (Annelida)

12:15 - 12:30

Samuel Ginot

How differing functional demands of mouthparts and sensory systems determine head shape and modularity in an insect

12:30 - 12:45

Peter Rühr *

Measurement and Analysis of Animal Closing Forces: Unlocking Insights into Micro- and Macroevolution

12:45 - 13:00

Atal Pande*

The Visual Systems of Crab Spiders and Running Crab Spiders: convergent or conserved?

13:00 - 13:15

Nathalie Brenner*

Evolutionary genetics of convergent mimicry color patterns in bumblebees



Thursday 07.09.2023

11:15 - 13:15
Lecture Hall 6

Subject Group Talks Neurobiology

11:15 - 11:30

Gregor Bucher

Molecular mapping of the neuroectoderm across phyla – conservation and divergence of brain regions between insects and vertebrates

11:30 - 11:45

Max S. Farnworth

Mosaic evolution in the mushroom body lobes of a long-lived butterfly

11:45 - 12:00

Erica Ehrhardt

Development of Johnston's organ in the antennal nervous system of the locust

12:00 - 12:15

Sercan Sayin

Dyadic attraction and allocentric vectorial integration drive density-dependent desert locust marching

12:15 - 12:30

Yannick Günzel*

Do you smell what I smell? Social modulation of olfactory processing in locusts

12:30 - 12:45

Joshua Huster*

Functional assessment of putative chemo co-receptors *IR25a* and *IR93a* of predator perception in *Daphnia*

12:45 - 13:00

Sohail H. Shoaib*

Discovery and functional characterization of RYamide signaling in *Rhyarobia maderae*

13:00 - 13:15

Ronja Bigge*

Dynamic contrast processing in the Hawkmoth visual system



Thursday 07.09.2023

11:15 - 13:15
Lecture Hall 3

Subject Group Talks Physiology

11:15 - 12:00

Carsten Scholz (Invited Talk)

How to respond to low oxygen: O₂-sensing in mammalian cells and tissues

12:00 - 12:15

Ayten Gizem Ozbek-Unal*

Impact of the peripheral fat body clock on lipid metabolism and health in *Drosophila*

12:15 - 12:30

Judith Bossen

Tracheal terminal cells in *Drosophila* show a limited immune response to avoid cell death

12:30 - 12:45

Mirjam Knop

A mitochondrial sirtuin shapes the intestinal microbiota by controlling lysozyme expression

12:45 - 13:00

Marius J. Beck

Comparative structural insights into insect and fungal chitin synthases and their inhibition by conventional pesticides

13:00 - 13:15

Bettina Zeis

Zooplankton is challenged by cyanobacteria: decline of energy reserves in *Daphnia magna*

13:15 - 14:30

Break (self organized)

Thursday 07.09.2023

14:30 - 16:00
Lecture Hall 4

Invited Talks

Behavioral Biology + Systematics

14:30 - 15:15

Manuel Bohn

ManyPrimates - An infrastructure for collaboration in primate cognition research

15:15 - 16:00

Christine Ewers

The reconstruction of anthropogenic change

14:30 - 16:00
Lecture Hall 6

Neurobiology + Physiology

14:30 - 15:15

Clara Ferreira

Social modulation of threat-evoked defensive responses

15:15 - 15:30

Halina Falfushynska

Effects of warming on the metabolic disruption caused by a hypolipidemic drug *gemfibrozil* in a model marine bivalve *Mytilus edulis*

14:30 - 15:15

Amanda A. Wiesenthal

Osmotolerance reflected in mitochondrial respiration of Blue Mussel populations from three different habitat salinities

15:15 - 16:00

Raphael Koll*

Establishment of an Omics based biomonitoring pipeline: Fishes in the Elbe estuary



Thursday 07.09.2023

16:00 - 17:00
Lecture Hall 3

Subject Group Talks Evolution

16:00 - 16:15

Alexander Jacobsen *

Evidence for incipient allochronic divergence over the lunar cycle in an intertidal midge

16:15 - 16:30

Jeremias N. Brand

Support for a radiation of free-living flatworms in Lake Tanganyika

16:30 - 16:45

Johannes Stökl

Decoding the multimodal courtship signal of a parasitoid wasp

16:45 - 17:00

Mohammadali Dashtbali*

The evolution of honest and dishonest signals of fighting ability

16:00 - 17:00
Lecture Hall 5

Morphology

16:00 - 16:15

Fabian Bäumler*

Functional morphology of the raptorial forelegs in Mantodea (Insecta)

16:15 - 16:30

Simon Züger*

Material composition and properties of cuticular components of centipede forcipules

16:30 - 16:45

Martin Horstmann

Specific turbulence- and Chaoborus-induced morphs affect the streamlining properties of *Daphnia cucullata*

Thursday 07.09.2023

16:45 - 17:00

Hendrik Müller

Morphology of fast-flowing stream tadpoles in the Afrobatrachian family Arthroleptidae

16:00 - 17:00

Lecture Hall 6

Neurobiology + Physiology

16:00 - 16:15

Caroline Spratte*

Midsession reversal learning performance in harbor seals (*Phoca vitulina*)

16:15 16:30

Hamed Yeganegi*

Age-related differences in the sleep of juvenile and adult zebra finches

16:30 - 16:45

Eda Dönmez*

The muscle transcriptome of non-healthy harbour porpoises (*Phocoena phocoena*) hints at oxidative stress, but not hypoxia

16:45 - 17:00

Robert Dallmann

TimeTeller: A novel tool to investigate molecular circadian clock function in individuals

17:00 - 17:30

Break

17:30 - 19:00

Lecture Hall 2

Prize Ceremony

Walther-Arndt Prize

Horst-Wiehe Prize

Werner-Rathmayer Prize



Thursday 07.09.2023

19:00 - 21:00
Poster Area

**Poster Session 2 (Even Numbers)/
Break**

Friday 08.09.2023

09:00 - 10:00
Lecture Hall 2

Plenary Lecture

Violetta Pilorz

The essence of light in life

10:15 - 11:15
Lecture Hall 2

Round Table Discussion

Clocks that time us

11:30 - 13:15
Lecture Hall 2

Discussion Session

Biological Sex

13:15 - 14:00

Break (self organized)

14:00 - 14:30

Subject Group Meeting

Lecture Hall 6

Developmental Biology

Lecture Hall 3

Ecology

Lecture Hall 5

Neurobiology

Lecture Hall 4

Systematics

14:30 - 16:30
Lecture Hall 2

Interdisciplinary Symposium

Big data - Big questions



Friday 08.09.2023

16:30 - 17:00

Break

17:30 - 18:00

Subject Group Meeting

Lecture Hall 4

Behavioral Biology

Lecture Hall 5

Evolutionary Biology

Lecture Hall 3

Morphology

Lecture Hall 6

Physiology

18:00 - 19:00

Student Awards & DZG General Meeting

Lecture Hall 2

19:00 - open end

Buffet & Party

Färberei

POISON DART FROGS (DENTROBATIDAE) FROM CENTRAL AND SOUTH AMERICA



Among the poison dart frogs, the species with bright and vibrant warning colours in particular are considered some of the jewels of the animal kingdom in the tropical rain forests of Central and South America.

A new series of models of poison dart frogs was created in collaboration with Mr Christian Groß, Director of Studies, representing 37 ideal types of colour morphs

This image shows as an example:

ZoS 1252/2 ·
BLUE POISON
DART FROG,
FEMALE, "AZUREUS"
BLUE, BLACK SPOTS
Dendrobates tinctorius
"azureus"

MARCUS SOMMER SOMSO® MODELLE GMBH

Friedrich-Rückert-Str. 54, DE-96450 Coburg

somso@somso.de • www.somso.de

facebook.com/SOMSOModelle/ • instagram.com/somsomodelle/



Voting sheets are provided in the welcome bag
Votes to be handed in the respective voting boxes at the
registration desk (see map)
Deadline: Friday by 10:00

VOTE FOR THE BEST POSTER!

REQUIREMENTS TO BE AN AWARDEE:

1. MAKE AN EXCELLENT POSTER
2. PITCH A POSTER PERFECTLY
- (OPTIONAL)
3. NETWORK WITH POSTER AUDIENCE

Student Award

DZG 2023 KASSEL DFG Deutsche Forschungsgemeinschaft multiscale clocks UNIKASSEL UNIVERSITÄT

VOTE FOR THE BEST STUDENT TALK!

REQUIREMENTS TO BE AN AWARDEE:

1. PRESENT AN EXCEPTIONAL TALK
2. NETWORK WITH AUDIENCE

Student Award

DZG 2023 KASSEL DFG Deutsche Forschungsgemeinschaft multiscale clocks UNIKASSEL UNIVERSITÄT

List of Posters

Name	Title	Poster number
Paul-Robin Franz*	Muted males - assessing the importance of vibrational communication in <i>Pisaura mirabilis</i> courtship	B1
Lena Zywucki*	Infanticide in burying beetles: Unveiling the dark side of parental care	B2
Nina Schwarz*	Emerging from Solitude: Understanding Behavioural Transitions of Desert Locusts through Visual Stimuli in Solitarious and Gregarious Phases	B3
Denise Becker*	Shaky affairs: Male vibratory courtship performance and mating success in the spider <i>Pisaura mirabilis</i> (Araneae)	B4
Merit Meschenmoser*	When darkness exceeds contrast	B5
Ahana Aurora Fernandez	<i>Saccopteryx bilineata</i> : A Promising Candidate for Exploring Neuronal Substrates of Vocal Learning	B6
Sabine Kraus	Insights into novel object tests	B7
Maitry Jani*	Morphology and behavioural use of silk glands in spiders: a case study of <i>Pholcus phalangioides</i> (Araneae: Pholcidae)	B8
Jessica Kolbe*	The Arachnid mind: Insights into embryonic brain development in <i>Parasteatoda tepidariorum</i>	D1
Danila Voronov	Timecourse transcriptomics to decipher molecular periodicity of <i>Clunio marinus</i> ' circalunar clock	D2
Dugcar Ebrar Erdogan*	Gene and genome duplication and phenotypic novelties – Insights from spiders	D3
Laura Schoch*	Developmental and molecular mechanisms underlying the formation of head horns in the broad horned beetle <i>Gnathocerus cornutus</i>	D4
Benedikt Drebes*	Linking the cell cycle to membrane oscillations in <i>Drosophila</i> syncytial cleavage division cycles	D5

List of Posters

Name	Title	Poster number
Chetan Munegowda*	The role of large-scale gene duplications in phenotypic diversity of spiders	D6
Denise Klinkenbuß*	Into the shadows: Molting in the common house spider <i>Parasteatoda tepidariorum</i>	D7
Matthias Pechmann	Germ-disc formation in spiders – a stochastic process?	D9
Franziska Wöhrmann-Zipf*	Kill it with venom – Embryonic development of venom glands in the spider <i>Parasteatoda tepidariorum</i>	D10
Venkata Sai Poojitha Koka	Sense organ development in spiders	D11
Andrea P. Murillo Rincon	Role of the developing olfactory epithelium in face morphogenesis: insights from scRNA-seq	D12
Yvonne Schumm	Movement and foraging ecology of the Antarctic's smallest breeding birds	EC1
Abdullah Ahmed*	Suitability of exotic plants for wild bees	EC2
Alexander Wacker	Decoupling ingestion from respiration: How brackish mysids cope with thermal fluctuations	EC3
Simin Wang*	Optimising High-throughput sequencing data analysis, from gene database selection to the analysis of compositional data: A case study on tropical soil nematodes	EC4
Eva Margarete Schulenberg*	Swimming in 'Stealth Mode'? Influence of Predator Presence on the Fluid Mechanics of <i>Daphnia longicephala</i> and its Ecological Consequences	EC5
Alexandra Mir Davood Bernal*	Nematode <i>Panagrellus redivivoides</i> affects <i>Drosophila</i> <i>melanogaster</i> -microbiota interactions	EC6
Anna Evlanova*	A Heated Exchange: Unraveling the Impact of Heat Stress on Fruit Fly Symbiosis	EC7

List of Posters

Name	Title	Poster number
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