

Speakers

Silvia Arber • Paola Arlotta • Frank Bradke • Jens Brüning
 Christian Buchel • Elena Cattaneo • Valina Dawson
 Sadaf Farooqi • Joe Fetcho • Jeff Friedman • Martyn
 Goulding • Anne C. Hart • Ulrike Heberlein • Kei Ito
 Ole Kiehn • Eva-Maria Mandelkow • George Mentis
 Klaus Nave • Vanessa Ruta • Giampietro Schiavo
 Kristin Scott • Vincent Timmerman • Brunhilde Wirth

For links to the speakers' homepages see:
www.genetik.uni-koeln.de/spring2013/

Organizers

Sigrun Korsching
 Tina Wenz
 Ansgar Büschges
 Elena Rugarli
 Brunhilde Wirth

For further details see:

www.genetik.uni-koeln.de/spring2013/

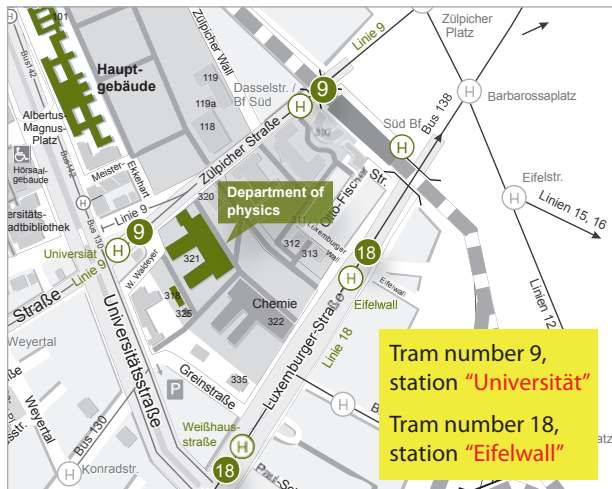
Meeting Office

Cäcilia Anstötz, Lydia Berlingen
 phone: +49 221-470-5684
 email: office-neuro-physiol@uni-koeln.de

Venue

Lecture Hall | Physics Institute
 Zülpicher Str. 77 | 50937 Köln

How to get to the meeting by public transport:



Certificate of attendance

Available at the Meeting Office.

Lunch and Dinner

A number of restaurants, pubs and bistros are located up and down Zülpicher Strasse. All these places are within walking distance of 5 – 10 minutes.

Exhibition

Meeting attendees are invited to visit the exhibition in the foyer of the Physics Institute during the opening times of the meeting.

Sponsors

The organizers appreciate financial support for this meeting by the following institutions:



Fritz Thyssen Stiftung
 für Wissenschaftsförderung

We thank the following companies for generous financial support:

Analytik Jena AG
 Charles River Laboratories
 Enzo Life Sciences GmbH
 Herolab Laborgeräte GmbH
 Keyence Deutschland GmbH
 Miltenyi Biotec GmbH
 New England Biolabs GmbH
 Nikon GmbH
 Seahorse Bioscience Inc,
 Serva Electrophoresis GmbH
 Takara Bio Europe SAS
 Thermo Electron LED GmbH
 TSE Systems GmbH

We thank Service Systems (www@sersys.de) for organizing the industrial exhibition.

NEURAL CIRCUITS DEVELOPMENT FUNCTION AND DEGENERATION

University
 of Cologne



Institute for Genetics
 Institute for Zoology
 Institute for Human Genetics

WEDNESDAY FEBRUARY 27

13:00-13:10 **Welcome**

Session 1: Development and regeneration of neural circuits

13:10-13:50 **Joe Fetcho**, A ground plan for the structural and functional organization of the hindbrain

13:50-14:30 **Paola Arlotta**, Programming and Reprogramming Projection Neuron Subtypes in the Cerebral Cortex

14:30-15:10 **Kei Ito**, Projectome analysis of the fly brain neural circuits from the clonal viewpoint

15:10-15:40 Coffee Break

15:40-16:20 **Frank Bradke**, Cytoskeletal Mechanisms of Axon Growth and Regeneration

16:20-17:00 **Martyn Goulding**, Unravelling the cellular logic of the spinal circuits that control limbed locomotion

17:00-17:40 **Vanessa Ruta**, Tracing Innate and Adaptive Olfactory Circuits in the Fly

17:40-18:10 Coffee Break

Keynote lecture

18:10-19:10 **Valina Dawson**, Modeling the Mysteries of Parkinson's disease

19:30 **Welcome Reception**

THURSDAY FEBRUARY 28

Session 2: Decision making and motor control

9:00-9:40 **Anne C Hart**, Stress, Adaptation and Sleep in *C. elegans*

9:40-10:20 **Kristin Scott**, Taste Recognition in *Drosophila*

10:20-10:50 Coffee Break

10:50-11:30 **Silvia Arber**, Organization and function of circuits controlling motor behavior

11:30-12:10 **Ole Kiehn**, Tracking locomotor networks active at different speeds

Session 3: Neurodegeneration in motor systems

12:10-12:50 **Elena Cattaneo**, Huntingtin from evolution to pathology - through stem cells

12:50-14:00 Lunch Break

14:00-14:40 **Eva-Maria Mandelkow**, Cell and animal models of Tau-dependent neurodegeneration

14:40-15:20 **Klaus Nave**, Glial support of axon function and survival

15:20-16:00 **Brunhilde Wirth**, Protection of Motor Neuron Degeneration by Modifiers in Spinal Muscular Atrophy

16:00-16:30 Coffee Break

THURSDAY FEBRUARY 28

16:30-17:10 **George Mentis**, The involvement of synaptic dysfunction in spinal circuits in Spinal Muscular Atrophy

17:10-17:50 **Giampietro Schiavo**, The control of neurotrophin receptor trafficking and its role in neuronal differentiation and survival

17:50-18:30 **Vincent Timmerman**, Small heat shock protein mutations causing Charcot-Marie-Tooth neuropathies

FRIDAY MARCH 1

Session 4: Neural circuits for hedonic control

9:00-9:40 **Ulrike Heberlein**, Flies and alcohol: complex interactions between genes, circuits and experience

9:40-10:20 **Jeff Friedman**, Leptin and the Neural Circuits Regulating Energy Balance

10:20-10:50 Coffee Break

10:50-11:30 **Jens Brüning**, Neurocircuits integrating homeostatic and hedonic control of energy homeostasis

11:30-12:10 **Sadaf Farooqi**, Neural mechanisms involved in human obesity

12:10-12:50 **Christian Büchel**, Decision making in humans

12:50-13:00 Closing remarks