

Speakers

Silvia Arber ♦ Paola Arlotta ♦ Frank Bradke ♦ Jens Brüning
Christian Büchel ♦ 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/

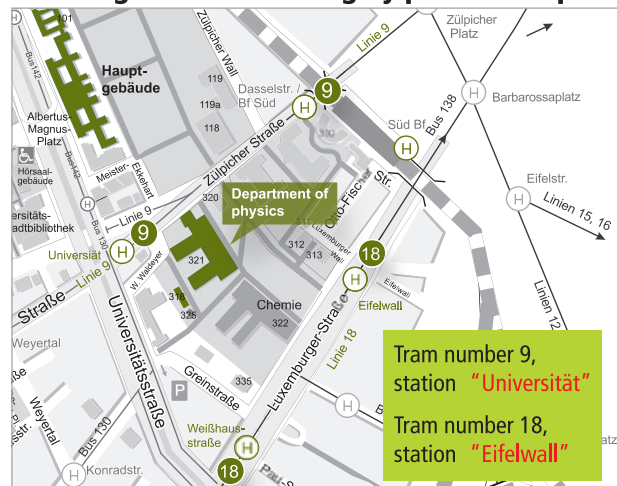
Meeting Office

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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:



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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: Sigrun Korsching**

Chair: Sigrun Korsching

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

Chair: Tina Wenz

Keynote lecture

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

19:30 **Welcome Reception** at the Institute for Genetics

THURSDAY FEBRUARY 28

Chair: Ansgar Büschges

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

Chair: Elena Rugarli

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

Chair: Brunhilde Wirth

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

Chair: Henrike Scholz

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: Tina Wenz**