

# Call for Abstracts

## Plenary Lectures

- ▶ Opening Lecture  
*M. Charles Liberman (Harvard, USA)*  
**Hidden hearing loss:  
primary neural degeneration in  
the noise-damaged and aging cochlea**
- ▶ Zülch Lecture  
*Elly Nedivi (Cambridge, USA)*  
**Structural plasticity of inhibitory circuits**
- ▶ Hertie Foundation Lecture  
*Winrich Freiwald (New York, USA)*  
**On the neural machinery for face recognition**
- ▶ Norbert Elsner Lecture  
*Uwe Homberg (Marburg, Germany)*  
**Neurobiology of spatial orientation in insects**
- ▶ Roger Eckert Lecture  
*David Julius (San Francisco, USA)*  
**Understanding pain sensation:  
from physiology to atomic structure**
- ▶ Ernst Florey Lecture  
*Detlev Arendt (Heidelberg, Germany)*  
**Evolution of neurons and nervous systems:  
a cell type perspective**
- ▶ Otto Creutzfeldt Lecture  
*Monica Di Luca (Milan, Italy)*  
**Encoding synaptic signals  
into gene expression:  
a role in brain physiology and diseases**

## Symposia

- ▶ Calcium homeostasis in neuroinflammation and -degeneration:  
new targets for therapy of multiple sclerosis?
- ▶ Common ground plan of the insect brain architecture
- ▶ Comparative connectomics:  
recent approaches and functional implications
- ▶ Computations – from sensations to decisions
- ▶ Correlating synaptic structure and plasticity at the nanoscale
- ▶ Emerging complexity and functions of microRNAs-dependent  
regulation in neuroscience
- ▶ Epigenetic mechanisms of behavior and  
physiological regulation
- ▶ Experience-dependent plasticity in chemosensation
- ▶ Facets of spatial information processing
- ▶ From monocytes to microglia – conditions influencing  
the fate of myeloid cells in the brain
- ▶ Glia – all the same? Increasing evidence for glial heterogeneity
- ▶ Glial cells in de- and remyelination
- ▶ How hearing happens: speed, precision and sensitivity
- ▶ How single neuron properties determine network dynamics
- ▶ Illuminating normal and diseased brain function with  
in vivo fluorescence imaging
- ▶ Mechanisms of neuronal and synaptic plasticity in epilepsy
- ▶ Molecular mechanisms of cargo and organelle transport  
in neurons
- ▶ Neural circuits of pain
- ▶ Neuronal circuit wiring in development
- ▶ Neuronal circuits underlying biological timekeeping
- ▶ New insights into functional and molecular dynamics  
of presynaptic calcium channels
- ▶ Novel local mechanisms of motor control
- ▶ Olfactory processing and behavior across the  
vertebrate/insect divide: communalities and differences
- ▶ Spike timing-dependent plasticity:  
from functions in circuits towards possible treatment of humans
- ▶ Structural and functional implementation of bottom-up  
and top-down influences in the primate brain
- ▶ System memory consolidation during sleep
- ▶ The evolutionary diversity of nervous system development –  
from worms to humans
- ▶ The longitudinal course of psychosis –  
clinical and neurobiological aspects
- ▶ The multiple neural codes of the retina
- ▶ The neuroscience of good and evil:  
translational insights into pro- and antisocial decision-making
- ▶ To eat? To sleep? To run?  
Coordination of innate behaviors by hypothalamic circuits
- ▶ Transport mechanisms at the blood-brain barrier
- ▶ Trends in small-animal neuroimaging:  
assessing functional connectivity of the whole brain
- ▶ Tuning ion channels, myelin, and synapses for rapid  
axonal signaling
- ▶ Use it or lose it – cellular and molecular mechanisms  
of synapse remodeling in developmental plasticity

**Deadline: October 4, 2016**

# Twelfth Göttingen Meeting of the German Neuroscience Society

[www.nwg-goettingen.de/2017](http://www.nwg-goettingen.de/2017)

**March 22–25, 2017**

The programmes of the  
last meetings are available at  
<http://nwg.glia.mdc-berlin.de/de/conference/archive/>

### Registration, Abstract Submission, and Exhibition

The Deadline for submission of  
poster abstracts and early registration  
is October 4, 2016. For Information  
on abstract submission and registration  
please visit the meeting's website:  
<http://www.nwg-goettingen.de/2017>

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### Stipends

The German Neuroscience Society provides  
stipends for young qualified investigators.  
**The deadline for application is October 4, 2016.**  
Applications must be submitted via the website  
of the German Neuroscience Society including

- a short CV
- a copy of the abstract
- a list of publications
- a letter of recommendation from a senior scientist