



## Einladung

zum Vortrag im Rahmen des Forschungscolloquiums Neurosensorik

**Freitag, 7. November 2008, 14:00 Uhr**

Ort: Carl von Ossietzky Universität Oldenburg, Campus Wechloy,  
Carl-von-Ossietzky-Str. 9-11, 26111 Oldenburg  
Raum: W2-1-143

und

Raum G26.1 – 010, Rechenzentrum der Universität Magdeburg  
(per Videokonferenz)

**Prof. Eckhard Friauf**

Abt Tierphysiologie, FB Biologie, Technische Universität Kaiserslautern

### ***Maturation of microcircuitry and synaptic transmission in the mammalian auditory brainstem***

The lateral superior olive is a conspicuous nucleus in the mammalian auditory brainstem. Its neurons receive excitatory (glutamatergic) and inhibitory (glycinergic) inputs which are highly topographic and converge through anatomically distinct pathways. These features have made the lateral superior olive a model system for analyzing the maturation of synaptic connectivity and transmission, especially concerning the inhibitory pathway. In the first part of this talk, I will provide a general summary of the dynamic changes and plasticity phenomena occurring while the microcircuitry is established. Then, I will present specific results about the function of chloride transporters and the role of voltage-gated calcium channels during the maturation period.

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HörerInnen aller Institute sind herzlich willkommen