



## Forscherguppe 1075

### Vortragsankündigung

# Molecular and cellular mechanisms of neuron-glia interactions - observations from in vivo studies of the mouse CNS

**Prof. Dr. Frank Kirchhoff**

Universität des Saarlandes, Homburg/Saar

Am Donnerstag, 18.02.2010, 18.00 Uhr  
im Klinikum der Universität, Seminarraum A2



Prof. Dr. Frank Kirchhoff is the head of the Institute for Molecular Physiology of the Department of Physiology at the University of Saarland, Homburg. His main research interest is the influence of glial cells on neuronal activity in the central nervous system. Using three dimensional morphometrical analyses by 2-photon microscopy in transgenic mice he visualizes tissue specific expression of fluorescent proteins. He studies the impact of glia cell activity on neurons under physiological and pathological conditions from maintenance of homeostasis to contributions in the signaling of the neuronal network. Glial cells constantly move and modulate their shape in search for synapses or damaged areas. Microglial cells appear as dynamic surveillants of brain parenchyma in vivo. He published in highly recognized journals including Science.