

Visualizing the inner life of neurons: In vivo imaging of developing and diseased axons

Thomas Misgeld

**Institute of Neuronal Cell Biology, German Center for
Neurodegenerative Diseases, TUM**

Abstract:

The loss of axons is a common feature of the developing and the diseased nervous system. In my presentation I will discuss our efforts to better understand such axon degeneration by developing in vivo imaging methods for axons and their subcellular constituents in transgenic mice.

Specifically I will present our efforts to visualize and quantify axonal transport, mitochondrial function and cytoskeletal stability. I will demonstrate the application of these techniques to a number of specific models of neural development and neurological disease.

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Room PH 127

Contact: Andreas Bausch, abausch@ph.tum.de, phone: 089-289-12408