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### CV

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2002 – present	APL-Professor, Dept. Neurophysiology, Medical Faculty, RUB
2000 - present	Akademischer Oberrat, Dept. Neurophysiology, Medical Faculty, RUB
1998 – 2000	Akademischer Rat, Dept. Neurophysiology, Medical Faculty, RUB
1996	Venia Legendi (Habilitation) in Physiology, Medical Faculty, RUB
1988 – 1998	Postdoc assistant, Dept. Neurophysiology, Medical Faculty, RUB
1984 – 1987	PhD Thesis at RUB, Dept. of Thermoregulation, Faculty of Biology, (Prof. Dr. R.Necker): <i>“The central somatosensory system of birds – electrophysiological and neuroanatomical studies”</i>
1982 – 1983	Diploma Thesis at RUB, Dept. of Thermoregulation, Faculty of Biology, (Prof. Dr. R.Necker): „Significance of the spinal dorsal column for the somesthetic system in birds”
1978 – 1982	Study of Biology (Diploma), Ruhr-University Bochum (RUB), Germany

### Recent Research Topics

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- Sensory processing and plasticity in thalamus and cortex, changes in neuronal activity and animal behavior induced by repetitive transcranial magnetic stimulation

### Five most important Publications

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1. Lenz M, Galanis C, Müller-Dahlhaus F, Opitz A, Wierenga CJ, Szabó G, Ziemann U, Deller T, Funke K, Vlachos A. Repetitive magnetic stimulation induces plasticity of inhibitory synapses. *Nature Comm.* (2016) *in press*.
2. Castillo-Padilla, D.V. and Funke, K. Effects of chronic iTBS-rTMS and enriched environment on visual cortex early critical period and visual pattern discrimination in dark-reared rats. *Dev. Neurobiol.* (2015) doi: 10.1002/dneu.22296. [Epub ahead of print].
3. Thimm, A. and Funke, K. Multiple blocks of intermittent and continuous theta-burst stimulation applied via TMS differently affect sensory responses in rat barrel cortex. *J. Physiol. Lond.*, 593 (2015) 967–985.
4. Mix, A., Hoppenrath, K., Funke, K.. Reduction in cortical parvalbumin expression due to intermittent theta-burst stimulation correlates with maturation of the perineuronal nets in young rats. *Dev. Neurobiol.* 75 (2015) 1-11.
5. Labedi, A., Benali, A., Mix, A., Neubacher, U., Funke, K. Modulation of inhibitory activity markers by intermittent theta-burst stimulation in rat cortex is NMDA-receptor dependent. *Brain Stimul.*, 7 (2014) 394-400.