“The Motor Cortex: An Ideal Cortical Region for Investigating Transcranial Magnetic Stimulation (TMS) Induced Plasticity”

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Dr. Paulus received his MD from University of Düsseldorf in 1978. His research focuses on the development of new therapies for neurological disorders incorporating modulation of brain excitability with repetitive transcranial magnetic stimulation (rTMS) and transcranial direct current stimulation (tDCS). Both rTMS and tDCS enable non-invasive induction of LTD- and LTP-like effects in the human brain. Dr. Paulus’ laboratory applies these techniques to Parkinson’s disease, epilepsy, migraine, stroke and dystonia. His research group has been credited with re-introducing and characterizing tDCS in the context of modern investigations of neuroscience and clinical neuromodulation. Dr. Paulus has published over 380 articles. He founded and has chaired the International Transcranial Magnetic Stimulation and Transcranial Direct Current Stimulation Symposium which has established itself as the leading scientific meeting in the field of transcranial brain stimulation.