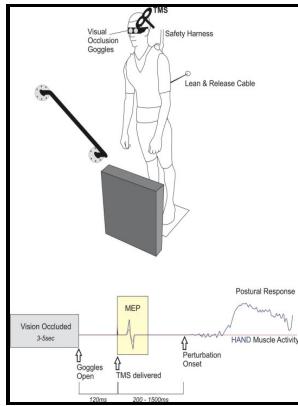


# Effect of magnetic stimulation of the motor cortex on a postural response in human subjects

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## The effect of lorazepam on the motor cortical excitability in man

Furthermore, as also different time lags between sessions may affect vigilance and attention of the participants and bias the results, we kept the day time of measurements rather constant between sessions. In the present study we aimed at better understanding the mechanism of neural plasticity. Thus, the focality of the TMS effect on individual neurons is in fact entirely consistent with previous behavioral results obtained with single-pulse TMS, especially in experiments where the TMS coil orientation is precisely aligned with the central sulcus for mapping different hand muscles.

## Effect of Levodopa on Postural Motor Learning in Parkinson Disease

The effect of the short-acting benzodiazepine lorazepam on motor cortex excitability was investigated in 11 healthy volunteers using the technique of focal transcranial magnetic stimulation. Average RTs for TMS solid squares and PNMS empty squares , plotted as a function of angle of rotation.

## Neural effects of transcranial magnetic stimulation at the single

In addition, there has been controversy about whether primary motor cortex is involved in motor imagery and mental rotation since some studies found evidence for such an involvement , ; ; ; ; while others did not ; ; ; , or found only weak evidence ; ; . C Post-rTMS fMRI session: the E blocks comprised 10 new unfamiliar face—name pairs, whereas the R blocks remained the same learned items as in the first.

## Modulation of postural wrist tremors by magnetic stimulation of the motor cortex in patients with Parkinson's disease or essential tremor and in normal subjects mimicking tremor

To test this prediction we included a condition in which the participants mentally rotated pictures of feet. Consolidation of Human Motor Cortical Neuroplasticity by D-Cycloserine.

## **Proton Magnetic Resonance Spectroscopy of the motor cortex reveals long term GABA change following anodal Transcranial Direct Current Stimulation**

Next, we tested whether the TMS-evoked effect differed significantly between the center of stimulation i.

### **Effect of Levodopa on Postural Motor Learning in Parkinson Disease**

Consistent with this hypothesis, several studies have demonstrated that a bilateral recruitment of PFC regions is related to facilitation in memory tasks ; ;. The intensity of TMS pulses was determined at 80% of motor threshold, which corresponded to the lowest intensity able to elicit a visible twitch of the first dorsal interosseus muscle of the right hand in at least 5 out of 10 trials. Importantly, these results indicate that our standard stimulation intensity was sufficiently above threshold to activate neurons in parietal cortex.

### **Modulation of postural wrist tremors by magnetic stimulation of the motor cortex in patients with Parkinson's disease or essential tremor and in normal subjects mimicking tremor**

We studied these facilitatory relationships in 5 normal subjects in small hand, forearm and upper arm muscles using surface-recorded compound motor action potentials, single motor unit recordings, and post-stimulus time histograms. Notably, direct evidence of a compensatory role of the right dorsolateral frontal lobe among healthy elders has been recently reported in an rTMS study.

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