

Special Issue

Neuromodulation of Language, Cognition and Emotion

Message from the Guest Editors

A growing methodological approach in cognitive neuroscience consists of modulating the neural activity of specific regions of the brain, using transcranial magnetic stimulation (TMS) or transcranial electrical stimulation (tDCS). These non-invasive techniques temporarily interfere with the activity of a target brain region and measure the consequences on behavioral or physiological processes. Unlike “correlational” techniques, such as neuroimaging or electroencephalography, which measure brain activity associated with functions, neuromodulation makes it possible to estimate causal links between neural regions and specific functions. In addition, neuromodulation can be combined with electromyography (EMG) measures to explore the cortico-spinal excitability, or with brain measures of BOLD or EEG signals to explore functional connectivity at rest or during tasks performance. Neuromodulation can also be applied in clinical settings to induce long lasting neuroplasticity and behavioral changes. This Special Issue invites original manuscripts involving neuromodulation methods to map brain functions, in a broad sense.

Guest Editors

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