Special Issue

The Functional Neuroanatomy of Spatial Cognition and Neurorehabilitation in Neglect Syndrome

Message from the Guest Editors

Since the early publication of the first evidence that brain-damaged patients can present with spatial lateralized deficits, the knowledge of the so-called spatial neglect, hemi-neglect or unilateral spatial neglect, and its mechanisms had largely advanced, especially with the contribution of recent brain imaging methods. These techniques, in particular functional MRI, diffusion MRI, and transcranial and intracerebral magnetic stimulation, in association with the voxel- and network-based lesion symptom mapping methods, have refined our understanding of the anatomoclinical relationship between brain regions and different features of spatial cognition, but also of its associated disorders such as anosognosia. The aim of this Special issue is to give an overview on the neuroanatomical correlates of visuospatial attention and spatial neglect in brain-damaged patients, taking also into account the development of new emerging technologies and methods, such as virtual reality and brain–computer interfaces with their potential to boost the positive and long-term effects of neurorehabilitation.

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