

Special Issue

Neural Mechanisms Underlying Sensorimotor Learning and Plasticity: Novel Advances and Future Perspectives

Message from the Guest Editor

Sensorimotor learning is the process by which we acquire and refine our ability to perform tasks that involve both sensory perception and motor control. It consists of learning how to coordinate sensory information (e.g., sight, touch, and proprioception) with motor actions to achieve specific goals or tasks. Despite the vital importance of sensorimotor learning for correct brain functioning, the plastic mechanisms underlying it at a neurophysiological level are still debated and have been underexplored. As a common feature, the works in this Special Issue should explore sensorimotor learning and plasticity to better establish the anatomo-functional underpinnings of these phenomena, integrating different neuroscientific methodologies to deepen their functional (or dysfunctional) mechanisms. These explorations could be from a neurophysiological or cognitive perspective, focusing on both the healthy and the damaged central nervous system. We welcome the submission of studies using non-invasive brain stimulation techniques, electroencephalography, and behavioural paradigms. Narrative reviews or meta-analyses investigating the state of the art of this topic are welcomed, too.

Guest Editor

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