

Special Issue

The Cerebellar Contribution to Cognitive Impairments and Affective Disorders

Message from the Guest Editor

The cerebellum is known to facilitate smooth, synchronous integration of motor functions. Recent work suggests a similar role for non-motor functions, although the cellular mechanisms underlying the cerebellar contribution to cognitive and affective processes remain unknown. The cerebellum can powerfully influence upstream brain regions involved in both cognitive and motor functions via thalamic relays. Reciprocal pontine nuclei inputs to the cerebellum allow for further integration. This feedback and integration of information from vast regions of the brain enables the cerebellum to learn, perform, and refine both motor and non-motor capabilities, making it an ideal target for novel translational and transdiagnostic treatments for diseases or events that culminate in cerebellar dysfunction. The goal of this Special Issue is to bring together novel research topics related to the contribution of abnormalities in cerebellar circuitry to disease states involving cognitive and affective dysfunction. We hope this encourages researchers in all areas of neuroscience to critically consider the cerebellum in their current research models spanning areas of science outside motor function.

Guest Editor

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