Special Issue

Cognition, Neuroscience and Asymmetry

Message from the Guest Editors

Structural and functional asymmetries are characteristic of biologic systems and are associated with lateralization and cognitive skills. Moreover, asymmetry in cognitive performance is a common phenomenon, associated not only with hemispheric asymmetry and functional lateralization. Asymmetry can be observed in cognitive development when the rate of change for particular cognitive functions varies, in both child development and the aging process. Importantly, atypical patterns of structural and functional asymmetries have also been shown in patients suffering from neurodevelopmental disorders. In addition, these disorders (neurocognitive, neurodevelopmental, mental, and behavioral) do not impair all cognitive functions equally, which is often used in differential diagnosis. Finally, therapeutic cognitive interventions targeting cognitive functioning, such as cognitive training or cognitive rehabilitation, also often manifest asymmetric effectiveness, providing positive changes in only certain areas of cognitive functioning or in only certain subgroups of individuals with a specific characteristic.

Guest Editors

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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