

Special Issue

Cognitive and Neurophysiological Models of Brain Asymmetry

Message from the Guest Editors

Dear Colleagues, Asymmetry is an inherent characteristic of brain organization in both humans and other vertebrate species. It is evident on the behavioural, neurophysiological and structural level. Brain asymmetry underlies the organization of several cognitive systems, such as emotion, communication and spatial processing. Despite this ubiquity of asymmetries in the vertebrate brain, we are only beginning to understand the complex neuronal mechanisms underlying this interaction between hemispheric asymmetries and cognitive systems. Unfortunately, despite the vast amount of empirical studies on brain asymmetries, theoretical models that aim for mechanistic explanations are sparse in the field. Therefore, this Special Issue is aimed at highlighting empirically-based mechanistic models of brain asymmetry. Both empirical papers testing existing or new models as well as theoretical papers suggesting new models of brain asymmetry are welcomed for the Special Issue. Replication studies of existing empirical evidence for specific models are also encouraged. Both submissions covering research in humans or research in non-human model species are welcome.

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About the Journal

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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