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Neuroscience, Neurophysiology and Asymmetry

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Message from the Guest Editor

This Special Issue of Symmetry shows various examples of how, behind an apparent symmetry in the nervous system, some of the processing of nervous information, especially sensory information, is carried out asymmetrically between both cerebral hemispheres. The discovery that the planum temporale had different sizes in both cerebral hemispheres showed anatomical differences between them and began the search for other anatomical and functional differences that would help to understand the global functioning of the nervous system. In fact, an increasing knowledge of these differences is allowing us to understand the nervous processing of different systems in an integrated way, rather than as isolated systems. Perhaps the most typical example is found in auditory processing of language, although in other sensory systems such as visual it is also observed.<false,>We encourage authors to send works carried out in different systems, with different strategies and methodological techniques in order to contribute to the construction of a more complete and global image of neural processing.

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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.

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