

Special Issue

Brain Laterality: The Asymmetry of the Brain

Message from the Guest Editors

Symmetry in the brain and causes for deviations relate to the deepest properties embedded in evolution. The most recent studies of biological structures and processes, whether random (fluctuating) or systematic (directional), have been primarily focused on primates. Laterality studies consistently find evidence among vertebrates of analogous functionality and brain laterality. The morphometric, motoric, functional, and chemical asymmetry of the brain is reflected in behavioral laterality. We consider it important to study the differences and similarities of different taxa pertaining to brain asymmetries, particularly in non-humans, especially in wild animals. Our idea is to try and elucidate the characteristics that are homologous or analogous between groups. This will enable us to try to understand whether these similarities are imposed by evolutionary changes in brain morphology or derived from a common evolutionary pathway.

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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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