

Special Issue

Brain Asymmetry in Evolution

Message from the Guest Editor

Asymmetrical aspects of brain morphology and function have been shown in higher mammals, including primates and carnivores, as species-related, sex-related, and individual diversities, and are associated with cognition, emotion, language, preference of hand/paw use, and so on. A disturbance of the brain lateralization is involved in human neurodevelopmental disorders with cognitive impairments and/or social deficits such as autism, schizophrenia, dyslexia, attention deficit hyperactivity disorder, and specific language impairments. Asymmetric development may be essential to the evolution of the brain for acquiring higher and/or more diverse function. The purpose of this Special Issue on “Brain Asymmetry in Evolution” is highlighting morphological and functional lateralization of the brain in various species of mammals for understanding the evolution of the brain. This Issue is also interested in the sexual dimorphism of brain asymmetry, brain function as relevant to motor and behavioral lateralization, and altered brain asymmetry in diseases and/or by gene manipulations.

Guest Editor

Prof. Dr. Kazuhiko Sawada

Department of Nutrition, Tsukuba International University, Tsuchiura, Japan

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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