

Special Issue

The Study of Brain Asymmetry

Message from the Guest Editor

There are anatomical and functional differences between both hemispheres of human brain. Brain asymmetry has also been observed in other animals. Damage to two brain areas localized in the left hemisphere, Broca's area and Wernicke's area, may result in the loss of the ability to formulate coherent appropriate sentences and loss of language comprehension. Other areas, such as the fusiform face area, specializing in visual-spatial and facial recognition, are localized in the right hemisphere. Moreover, the left hemisphere is responsible for the processing of pleasurable experiences and for decision-making processes, while the right hemisphere is involved in the processing of negative emotions, vigilance, arousal, and self-reflection. The motor functions are also lateralized. The left hemisphere acts on the right side of the body, and vice-versa. Left-handedness can result from the motor cortex asymmetry. The corpus callosum is responsible for the communication between both hemispheres. An abnormal brain asymmetry has been observed in various disorders, the study of brain asymmetry can be helpful in the diagnosis of various neurological and psychiatric disorders.

Guest Editor

Dr. Elzbieta Olejarczyk

Nalecz Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, 02-109 Warsaw, Poland

Deadline for manuscript submissions

closed (31 October 2023)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/95446

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

[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)



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

Prof. Dr. Sergei Odintsov
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),
C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1
(General Mathematics)