



symmetry

an Open Access Journal by MDPI



Neural Mechanisms Underlying Hemispheric Asymmetry for Social Communication and Auditory Perception

Guest Editor:

Dr. Stuart D. Washington

McGovern Institute for Brain
Research, Massachusetts
Institute of Technology, 43 Vassar
St, Cambridge, MA 02139, USA

Deadline for manuscript
submissions:

15 September 2024

Message from the Guest Editor

Dear Colleagues,

A defining characteristic of the human brain is a left-hemispheric asymmetry for processing speech and language. This classic result is complicated by a multitude of subsequent findings. Reconciling these discrepancies necessitates a robust debate about the neural substrates underlying, along with the ethological pressures driving, hemispheric specialization for social communication and general auditory perception.

In this Special Issue, we invite clinical, basic research, and comparative papers exploring and discussing neural substrates of hemispheric asymmetry for speech, music, and other sounds along with non-acoustical aspects of language. Of particular interest is contrasting, debating, and validating various “closed system” (e.g., speech module) and “domain general” (e.g., spectral vs. temporal, asymmetric sampling in time, double filtering by frequency) hypotheses. Studies of visual and motor asymmetries should be directly relatable to topics of either speech, language, or social communication (e.g., sign language), likewise with studies of music and/or pitch.



mdpi.com/si/109111

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

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

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

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

Contact Us

Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI