

Special Issue

Individual Differences in Behavioral and Neural Lateralization, 2nd Edition

Message from the Guest Editors

Research on behavioral and neural asymmetries has shown that many instances of lateralization may be affected by several individual differences. For example, it is well-known that neurodevelopmental disorders (among which those included in the autism spectrum) seem to be related to atypical patterns of lateralization. Patient with depression and anxiety disorders also exhibit abnormal lateralization. However, we point out that – even leaving aside disease-related conditions – specific laterality patterns can be linked to particular personal characteristics including, among others, sex, age, personality, sexual orientation and cognitive performance. Interestingly, the expression of various behavioral and neural asymmetries has been related to individual differences not only in humans but also in non-human species. It should be noticed that current research is continuously unveiling further individual factors associated with specific patterns of behavioral (as regards motor, emotional, perceptual, attentional and other cognitive processes) and neural (as regards both anatomical and functional aspects) lateralization...

Guest Editors

Dr. Anita D'Anselmo

Dr. Elena Mussini

Dr. Daniele Marzoli

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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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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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