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Individual Differences in Behavioral and Neural Lateralization

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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, neurodevelopmental disorders seem to be related to atypical patterns of lateralization. Patient with depression and anxiety disorders also exhibit abnormal lateralization. Besides disease-related conditions, specific laterality patterns can be linked to particular personal characteristics (e.g., sex, age, personality, sexual orientation, cognitive performance). Interestingly, the expression of various behavioral and neural asymmetries has been related to individual differences also in non-human species.

Current research is continuously unveiling further individual factors associated with specific patterns of behavioral and neural lateralization, strongly suggesting that many of them have yet to be identified. A better understanding of the relationship between individual differences and behavioral and neural asymmetries would benefit both basic and applied research, and this Special Issue intends to promote such an endeavor by hosting empirical and theoretical papers covering different topics, methods and populations.

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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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