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Neuroscience, Neurophysiology and Symmetry

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

Neurosciences, neurophysiology and symmetry. Why is symmetry (inter-limb) so particular to human movement and posture? Inter-limb symmetry or asymmetry may occur as a function of motor experience, the nature of movements, the environmental context, individual/intrinsic factors and the limb dominance effect. However, on the one hand, the finer details of motor and postural symmetry or asymmetry have not yet been fully identified in terms of information perception, central integration and movement command and control. On the other hand, the neural mechanisms involved are also not fully understood at the different neurological levels (peripheral, spinal, subcortical and cortical). Therefore, exploratory research is needed in order to understand symmetry or asymmetry in terms of human movement and posture. Here we call for papers which address why and how symmetry or asymmetry affects the motor and postural behaviour.

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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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