



symmetry



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Symmetry/Asymmetry in Musculoskeletal Science

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submissions:

closed (30 September 2023)

Message from the Guest Editors

According to the WHO, approximately 1.71 billion people live with musculoskeletal disorders worldwide. With new technologies, we are now able to monitor the functions of the musculoskeletal system in ways unprecedented in history. This allows us to shed new light on many key concepts, including the role of symmetry in the ability to maintain function. The lack of symmetry can be a cause and an effect of various dysfunctions of the locomotor system.

In this Special Issue, we invite manuscripts concerned with the role of symmetry in the musculoskeletal system and how it affects locomotor function and human well-being in general. We are seeking papers investigating the prevalence of asymmetries in different organs, systems and disease units, associations between different asymmetries (e.g., local or global; asymmetries in structure, strength, power, stability, flexibility, movement kinematics or other aspects), relationships between asymmetries and general human health, quality of life, treatment outcomes, quality of gait and other aspects of human biomechanics and methodological as well as interventional studies concerning human body (a)symmetries.



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Special Issue



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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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