



Symmetry and Biomechanics

Guest Editor:

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submissions:

closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

The symmetrical structure and function of the human body is essential for performing safe, efficient, and purposeful movements in sport, at the workplace, or during the activities of daily life. Asymmetries in motor abilities and function are especially prevalent among athletes, and are related to decreased performance and movement efficiency. Asymmetries can be local (involving a single joint, muscle, or body part) or global (complex movement patterns involving the whole/majority of the body). Structural and functional asymmetries may lead to overload of the musculoskeletal system during cyclic (e.g., running and cycling) or discrete (e.g., jump) movements; however, the cause–effect relationships between asymmetries and injury risk have not been established.

In this Special Issue, we invite papers exploring and discussing the topic of body (a)symmetry and their importance for athletes or human movement in general. We welcome papers exploring the prevalence of asymmetries in different populations, associations between different asymmetries...





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Editor-in-Chief

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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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