Special Issue

Applications of Symmetric and Asymmetric Studies in Biological Structure

Message from the Guest Editors

This Special Issue invites research on the applications in biomedicine with symmetric and asymmetric studies, aiming to bring together diverse perspectives from fields such as medical imaging, modeling, diagnostics, and device design. Symmetry is utilized in microfluidic device design to create controlled fluid environments. In medical imaging, clinicians analyze symmetry and asymmetry to detect abnormalities. Symmetry in biological structures also informs computational models that simulate physiological processes. We welcome contributions that explore these and other ways that symmetry and asymmetry can be harnessed to advance biomedical research, develop diagnostic techniques, and improve patient care. We also encourage discussions on the challenges and reliability of using symmetry in practical design, modeling, and diagnosis. By uniting these interdisciplinary efforts, we aim to deepen our understanding of how symmetry impacts biomedical challenges and solutions.

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About the Journal

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.

Editor-in-Chief

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