Special Issue

Asymmetries in Biological Phenomena

Message from the Guest Editor

Symmetries in natural phenomena, and causes for departures from symmetry, relate to the deepest properties embedded in natural phenomena. Biological structures and processes are no exception. Our understanding of biological asymmetries, whether random (fluctuating) or systematic (directional) is scarce. This is true at the levels of morphological bilateral (a)symmetries, biomolecular chirality, behavioural laterality, genetic code structure, DNA structure, and directionality in biomolecular processes such as replication, transcription and translation. This special issue invites reviews, new insights and research on these topics at any level of biological phenomena, including analyses that unite asymmetries across observational scales and topics.

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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.

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