Special Issue

Biological Network and Its Symmetric Applications in Biomedicine

Message from the Guest Editors

Symmetry is one of the most common properties in biological systems and biological network to keep the systems stability. However, some biological events especially the symmetry breaking events such as gene mutations, gene abnormal expression, protein miss-folding, etc. will lead to the perturbation to the systems, for example, human disease occurrence and development. In recently decades, network methods including centrality-based method and perturbation-based method have been used to investigate the effects of symmetry and symmetry breaking on the biological systems. The aim of this Special Issue is to highlight and overview the recent advances in different level biological network methods and applications in different multidisciplinary areas...

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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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