

Structural Symmetry and Asymmetry Implications in Development of Recent Pharmacy and Medicine

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Message from the Guest Editors

Dear Colleagues,

Structural symmetry or asymmetry are one of the most fundamental properties of chemical compounds, which is often an important factor determining their chemical and biological activity. This property of compounds is diverse and can be considered at various levels of structural organization, starting from the phenomenon of chirality, which plays an important role in numerous biological compounds, such as proteins, saccharides and nucleic acids, the presence of centers, planes or axes of symmetry which determine the structure of numerous chemical systems like metal complexes of organic compounds, and crystal lattices of compounds exhibiting pharmacological potential up to nanomaterials. The investigation of structural correlations with biological activity of compounds has become a large area of research in modern chemistry, pharmacy, and medicinal chemistry. Such a research field has important practical implications in the development of novel materials, targeted therapies, drug design, and others...





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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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