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Symmetry/Asymmetry of Molecules Related to Biological Activity

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Message from the Guest Editors

This Special Issue aims to highlight new ways of exploring and demonstrating the role of the symmetry/asymmetry of natural or synthetic chemical compounds in relation to their potential biological activity, with the ultimate goal of revealing new therapeutic applications. Symmetrical chemical skeletons provide a number of desirable properties with implications in various biological activities. Correlating the symmetric/asymmetric elements of the structure with their functions and intrinsic behavior related to biological activity is a reliable way to better understand and exploit potential pharmaceutical or medical applications to design better structures with controlled properties. Symmetric assemblies reflect in specific shapes (cyclic, trigonal, icosahedral, tetrahedral, helical, etc.), leading to specific biological functions. Revealing the certain physical and chemical significance of the symmetry/asymmetry of natural or synthetic compounds therefore helps to obtain new effective information on their broad biological characteristics.

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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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