Special Issue

Recent Advances in the Analysis, Distribution and Functions of Enantiomers and Regioisomers of Biomolecules

Message from the Guest Editor

Biomolecules, also called biological molecules are the substances produced by living organisms that play important roles in chemical and biological processes. They include large molecules such as proteins, carbohydrates, lipids, and nucleic acids, as well as small molecules such as primary and secondary metabolites, and natural products. Many biomolecules are complex mixtures of different types of isomers that contain enantiomers and regioisomers. Although the analytical technologies and methodologies have advanced rapidly in recent years, there are still many biomolecules for which detection and separation are difficult to achieve and in which physiological significance and biological activities remain unknown. This would encourage new discoveries in both basic and applied research on isomeric biomolecules. In this Special Issue, we cordially invite and welcome review, expository, and original research articles dealing with recent advances in the subjects of analysis, distribution, and functions of isomeric biomolecules, including enzyme regio- and enantio-specificities.

Guest Editor

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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.

Editor-in-Chief

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