Special Issue

Chiral Molecules - Production and Biological Properties

Message from the Guest Editor

Constituents of living organisms are predominantly built up from chiral building blocks: e.g. L-amino acids and D-carbohydrates. Life processes therefore involve stereochemically defined molecules. Searching for new biologically active compounds both enantiomers with defined configurations of stereogenic centers should be studied separately to assess the relevance of stereoisomerism on their properties. Chiral molecules can be built by several methods that include chemical synthesis from natural chiral precursors, asymmetric synthesis using chemical chiral catalysts as well as biocatalysts – isolated free or immobilized enzymes or whole-cell biocatalysts. For this Special Issue, contributions from new aspects of production of chiral molecules and effect of configuration of their stereogenic centers on the biological activity are welcomed.

Guest Editor

Prof. Dr. Witold Gładkowski
Department of Chemistry, Wrocław University of Environmental and Life Science, Wrocław, Poland

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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

Prof. Dr. Sergei Odintsov
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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