



Chiral Auxiliaries and Chirogenesis II

Guest Editor:

Prof. Dr. Victor Borovkov

Department of Chemistry and
Biotechnology, Tallinn University
of Technology, Academia tee 15,
12616 Tallinn, Estonia

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Message from the Guest Editor

Dear Colleagues,

Chirality is one of the most fundamental properties of nature, and is important in different branches of science, technology, and medicine, relating to the ability of any object to exist as a pair of non-superimposable mirror images or to a unidirectional action (e.g., motion). It is widely seen, and plays a key role in various biological structures, such as saccharides, proteins, enzymes, membranes, DNA/RNA, etc. The phenomena of chiral auxiliary and chirogenesis are of paramount significance for all aspects of chirality, and include asymmetry generation, transfer, amplification, modulation, memorizing, and others. The investigation of these effects is a rapidly growing area of research, and directly connects with numerous natural processes, artificial systems, and modern industries. In addition, this research field has important practical implications in novel materials, enantioselective catalysis, chiral sensors, optical resolution, asymmetric synthesis, nanotechnology, medicine, pharmacology, biomimetic studies, and others...





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Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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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Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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