Special Issue

Symmetry/Asymmetry of Molecules Related to Biological Activity

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.

Guest Editors

Dr. Amalia Stefaniu

National Institute of Chemical-Pharmaceutical Research and Development—ICCF, 112 Vitan Av., 3th District, 031299 Bucharest, Romania

Dr. Nicoleta Nicole Radu

1. Faculty of Biotechnology, The University of Agronomic Sciences and Vetrinary Medicine of Bucharest, 59 Blvd Marasti, 1th District, 011464 Bucharest, Romania
2. Biotechnology Department, The National Institute of Chemistry and Petrochemistry R&D of Bucharest, 202 Splaiul Independentei, 6th District, 060021 Bucharest, Romania

Deadline for manuscript submissions

closed (28 February 2026)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/205364

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI