Special Issue

Symmetry in the Framework of Molecular Biology and Microbial Biotechnology

Message from the Guest Editor

Symmetry is a characteristic that we can find throughout nature. It is a parameter common to almost all sciences, from physics to biology through to mathematics, chemistry, and even social sciences. In the field of biology, it is common to associate the concept of symmetry with the shape of living organisms, either at the macroscopic level (animals, plants, etc.) or at the microscopic level (bacteria, protozoa, etc.). However, if we go down to the level of molecular biology, this symmetry can also be observed in a multitude of macromolecules such as proteins, DNA, lipids, and sugars. Furthermore, we can extend this symmetry to biological reactions and processes that take place in living organisms. On many occasions, this symmetry or its absence is responsible for the functionality or versatility of a biological process. The main objective of this Special Issue is to emphasize the importance of symmetry in the field of biological processes at the molecular level, as well as its relevance when using microbiology as a biotechnological tool.

Guest Editor

Dr. Gonzalo Durante-Rodríguez

Environmental Microbiology Group, Department of Microbial & Plant Biotechnology, Biological Research Center (CIB-CSIC), 28040 Madrid, Spain

Deadline for manuscript submissions

closed (31 August 2022)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/72408

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
1. ICREA, 08010 Barcelona, Spain
2. 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