Special Issue

Symmetry in Molecular Biology

Message from the Guest Editors

Symmetry is one of the ubiquitous concepts in science, impacting very diverse phenomena, such as the very beginning of the Universe all the way through to the appearance of life on Earth, the laws of its evolution and the ever-inspiring wonders of the molecular machinery of living beings. It sets the stage for everything in the physical world as physics seeks and, with much success, manages to unify all the fundamental forces in super-symmetrical grand unification. This stage is filled with a multitude of players that whirl on it in a myriad of fascinating ways that make up the multiple organizational levels of living cells. The interplay of symmetry and asymmetry seems to be built into life itself, and it appears on all structural levels: From symmetric spherical atoms that join into chiral amino acids, which then join to make asymmetric protein chains that often join into more complex and symmetrical oligomers, which then join into fascinating symmetrical viruses...

Guest Editors

Dr. Biserka Kojić-Prodić
Division of Physical Chemistry, Institute Ruder Boskovic, Zagreb, Croatia

Dr. Zoran Štefanić
Division of Physical Chemistry, Institute Ruder Boskovic, Zagreb, Croatia

Deadline for manuscript submissions

closed (31 January 2022)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/24011

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

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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

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