



*symmetry*



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## Molecular Biology and Applied Microbiology

Guest Editor:

**Prof. Olga S. Latinovic**

Institute of Human Virology,  
School of Medicine, University of  
Maryland, Baltimore, MD, USA

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submissions:

**closed (15 September 2021)**

### Message from the Guest Editor

Dear Colleagues,

*Symmetry* addresses unique aspects of symmetry in molecular biology, including microbiology and pharmacy studies. Symmetry can be defined as the balanced and repetitive arrangement of an organism's components or shapes around a central direction or axis, and it can be external or internal. External symmetry is present in animals, plants, fungi, viruses and bacteria and can be easily seen by simply looking at a plant or animal (microscopically in the case of viruses and bacteria). For example, the spectacular small emperor moth *Saturnia pavonia* (Linnaeus, 1758) shows a frightening feature with bilateral symmetry on its wings. Internal symmetry presents features that can also show high levels of organization and symmetry. For example, the blood vessels in human/animal bodies show internal symmetry or viral protein arrangement within the virus body. In addition, symmetry in biology can be understood as a special form of mathematical transformation. This includes movements such as translation and rotation...



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### Prof. Dr. Sergei 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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/symmetry  
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