

Special Issue

Symmetry versus Asymmetry in Cell Biology

Message from the Guest Editors

Far from obvious sometimes, symmetry can be easily disclosed in almost every domain of cell biology. Usually properly associated with cell morphology or architecture (structure and ultrastructure), *symmetry and asymmetry* can be also viewed, metaphorically, as a *yin and yang* that the equilibrium of cell function(s) is relying on. We are soliciting contributions (research and review articles) covering a broad range of topics on symmetry versus asymmetry in cell biology, including (though not limited to) the following:

- Molecular mechanisms of cell polarization
- Symmetric versus asymmetric cell division
- Mechanisms of asymmetry during development
- Symmetry breaking cell signals
- Dorsiventrality, patterns and branching systems
- Symmetry versus asymmetry in molecular cell interactions
- Cell space fillers: staking and packing
- Symmetry breaking during movements
- Maintaining internal (a)symmetries (spatial or temporal regulators of localization or interaction)
- Exploiting symmetry in antiviral strategies
- Apoptosis and a(symmetry)
- Organelle shape and cell activity

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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.

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