

Special Issue

Medicinal Chemistry: Topics and Advances

Message from the Guest Editor

As a multidisciplinary research subject, medicinal chemistry addresses themes within biology, medicine, and chemistry by providing new chemical entities of pharmacological interest. Thus, in a successful drug discovery route, all of the chemical properties must be taken into account, including those related to structural symmetry of both the end products and the molecules encountered in the overall process as well as reagents, catalysts, and others. In this regard, the numerous advances in this field, spanning from theoretical design to synthetic methodologies, are contributing to more efficient and sophisticated strategies to access therapeutic potential. Therefore, this Special Issue will be devoted to topics and advances in the field of medicinal chemistry with a particular focus on symmetry, including but not limited to the role of chirality in bioactive molecules, such as small molecules, peptides, and peptidomimetics, in addition to related procedures, such as chiral separation, asymmetric synthesis, chiral auxiliaries, and catalysis. Original research and review articles within the general aims and scope of the journal are welcome.

Guest Editor

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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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