

Special Issue

The 20th Anniversary of *Pharmaceuticals*—Heterocyclic Compounds and Their Application in Therapy

Message from the Guest Editors

Heterocycles are present in numerous organic compounds of interest in biology, pharmacology, and medicine. Heterocycles exhibit unique structures, leading to several applications in the design of drugs. The presence of heteroatoms (e.g., N, S, and O) in the cyclic molecular structures results in significant physicochemical properties. Hydrogen bond donors and acceptors in these rigid frameworks allow hydrogen bond interactions with receptors and/or target enzymes, enhancing binding affinity and improving therapeutic potency. Heterocycles can also be involved in the design of prodrugs and modulate the lipophilicity of bioactive molecules, thus varying their pharmacokinetic and pharmaceutical properties. This Special Issue aims to review recent developments in the design, synthesis, and pharmaceutical properties of natural products as well as synthetic compounds containing aromatic heterocyclic systems.

Guest Editors

Prof. Dr. Thierry Besson

INSA Rouen Normandie, Univ. Rouen Normandie, CNRS UMR 6014
COBRA, FR 3038, F-76000 Rouen, France

Prof. Dr. Pascal Marchand

Cibles et Médicaments des Infections et de L'immunité, IICiMed, UR
1155, Nantes Université, F-44000 Nantes, France

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

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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