Special Issue

Pyrazole and Its Derivatives: Drug Design, Synthesis, and Biological Evaluation

Message from the Guest Editors

The pyrazole nucleus represents a pivotal building block in a broad range of areas including organic and medicinal chemistry, food industries, and agricultural systems. Furthermore, pyrazole-based compounds have been widely described as pharmaceutically active derivatives endowed with a plethora of biological properties such as anti-inflammatory, anticonvulsant, anticancer, antidepressant, antibacterial, antifungal, analgesic, and antiviral. The pharmacological attractiveness of the pyrazole nucleus is probably due to its particular chemical behavior. In fact, the unshared electrons of the two nitrogen atoms (namely, "pyrrolelike" and "pyridine-like" nitrogens) differently contribute to the resonance of this heterocycle, being uniquely the lone pair of the "pyrrole-like" nitrogen conjugated with the aromatic system. These characteristics allow for the reaction between the nucleus and both acids and bases, making it a perfect building block. Based on this evidence, the current Special Issue aims to enrich the scientific knowledge around the pyrazole scaffold and further support the pharmaceutical interest on pyrazolebased derivatives.

Guest Editors

Dr. Matteo Lusardi

Department of Pharmacy, Università degli Studi di Genova, Viale Benedetto XV 3, I-16132 Genova, Italy

Dr. Marco Ponassi

IRCCS Ospedale Policlinico San Martino, Proteomics and Mass Spectrometry Unit, L.go. R. Benzi, 10, 16132 Genova, Italy

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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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We hope to handle your contribution to *Pharmaceuticals* soon.

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 Cièncias, Universidade de Lisboa, Lisboa, Portugal

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