

## 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, “pyrrole-like” 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 pyrazole-based derivatives.

### Guest Editors

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