

Special Issue

Nucleosides: Synthesis and Antiviral Activity

Message from the Guest Editor

Nucleosides are fundamental building blocks of biological systems that show a wide range of biological activities. Consequently, extensive modifications have been made to both the heterocyclic base and the sugar moiety in order to avoid the drawbacks shown by nucleosides or analogues in certain applications, mainly due to enzymatic degradations. The design and synthesis of molecules for the fight against aggressive and potentially fatal diseases, also including cancer and bacterial infections, remain important challenges.

This Special Issue aims to attract contributions on all the aspects concerning the synthesis, through various and different strategies, of classical nucleosides, carbocyclic nucleoside, and analogs. These results can be considered fully consistent if in vitro biological evaluations of the synthesized compounds are also reported. This will be the challenge to further exploring the range of biological effects and potential applications as antivirals of brand-new compounds.

Guest Editor

Prof. Dr. Paolo Quadrelli
Department of Chemistry, Università degli Studi di Pavia, Pavia, Italy

Deadline for manuscript submissions

closed (31 October 2019)



Molecules

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Impact Factor 4.6
CiteScore 8.6
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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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