



Coumarins and Coumarin Derivatives: From Chemistry to Drug

Guest Editors:

Dr. Salvatore Genovese

Dipartimento di Farmacia,
University of G. d'Annunzio Chieti
and Pescara, Chieti, Italy

Dr. Serena Fiorito

Department of Pharmacy, 'G.
d'Annunzio' Chieti-Pescara
University, Via dei Vestini 31,
66100 Chieti, Italy

Dr. Vito Alessandro Taddeo

University of G. d'Annunzio Chieti
and Pescara, Chieti, Italy

Deadline for manuscript
submissions:

closed (30 April 2019)

Message from the Guest Editors

Plant secondary metabolites have played an important role in human welfare due to their great therapeutic potential. Among them, coumarins and coumarin derivatives have gained popularity because of their health benefits; and structurally, coumarin derivatives resemble vitamin K, an important element involved in the synthesis of a number of clotting factors. Coumarins belong to the heterocyclic class of organic compounds, naturally present in a large variety of plant families. Since the discovery of the first coumarin, more than 200 years ago, a huge number of coumarins and analogues have been either isolated or synthesized. In light of these premises, this Special Issue aims to collect contributions on the potential of coumarins and coumarin derivatives to enhance the positive influence in human welfare. Chemical characterizations of plant extracts together with the evaluation of biological activities (cytotoxicity against microorganisms and human cell lines, antimicrobial, antifungal, antioxidant, anti-inflammatory effects) of the mixture, as well as of the single compounds, are required.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)