



Coumarins as Effective Therapeutic Agents: Mechanism of Action and Diverse Activity

Guest Editor:

Dr. Jarosław Widelski

Department of Pharmacognosy
with Medicinal Plant Unit,
Medical University of Lublin,
Chodzki, 120-093 Lublin, Poland

Deadline for manuscript
submissions:

20 September 2024

Message from the Guest Editor

Coumarins are heterocyclic compounds belonging to the class of benzopyrenes, found in various plants, fungi and microorganisms. Coumarins and their derivatives show great chemical diversity and include furanocoumarins, pyranocoumarins, as well as simple coumarins. These natural compounds exhibit bioactive properties such as anticoagulant, antimicrobial, anti-inflammatory, antioxidant, antimalarial, anticancer, antiviral and enzyme inhibitory effects, including acetylcholinesterase, COX or tyrosinase. In recent years, there has been an increasing number of reports on the activity of coumarins in the central nervous system, and they have exhibited neuroprotective, anticonvulsant and anti-anxiety effects.

This Special Issue will include a selection of articles highlighting the current challenges in phytochemical research on coumarins and determining their pharmacological activity and possible applications.

We invite you to participate in this Special Issue by submitting original research, short communications and review manuscripts. This is a great opportunity to contribute to the search for new natural medicines.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI