Special Issue

Synthesis and Bioactivity of Coumarin and Coumarin Derivatives

Message from the Guest Editor

Coumarin (2H-1-benzopyran-2-one) is wide spread as an essential core moiety in a variety of natural products occurring in plants, bacteria, and fungi. Coumarins present interesting biological properties, such as anticoagulant, antibiotic, anti-inflammatory, antioxidant, anti-HIV, anticancer, thermal photosensitizing, vasodilator, and estrogenic activity.Especially, hydroxycoumarin derivatives are used as anticoagulant, antibiotic, or choleretic drugs. 7-Aminocoumarins are useful as biological sensors showing fluorescence activity. Fused furanocoumarin derivatives are used for treating psoriasis, and they also exhibit anti-inflammatory, antibacterial, antifungal, and cytochrome P-450 inhibitor properties. Fused pyranocoumarins present anti-HIV, anticancer, anti-inflammatory, antifungal activities, and they play an important role in the regulation of root growth in different plants. Fused pyrrolocoumarins possess cytotoxic, anti-HIV, anti-inflammatory, photobiological, and antiproliferative properties. Fused pyridocoumarins present anticholinergic, antidiabetic, antiallergic, antipsychotic, and antimicrobial activities.

Guest Editor

Prof. Dr. Konstantinos E. Litinas
Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece

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Molecules
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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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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