## **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, antiinflammatory, 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.



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#### Deadline for manuscript submissions

closed (31 July 2020)





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## About the Journal

### 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

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