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Synthesis and Bioactivity of Coumarin and Coumarin Derivatives

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

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 anticoagulant, antibiotic, or choleretic drugs. Aminocoumarins are useful as biological sensors showing fluorescence activity. Fused furanocoumarin derivatives are used for treating psoriasis, and they also exhibit antiinflammatory, antibacterial, antifungal, and cytochrome P-450 inhibitor properties. Fused pyranocoumarins present anti-HIV, anticancer, anti-inflammatory, activities, and they play an important role in the regulation of root growth in different plants. Fused pyrrolocoumarins cytotoxic, anti-HIV, anti-inflammatory. possess photobiological, and antiproliferative properties. Fused pyridocoumarins present anticholinergic, antidiabetic, antiallergic, antipsychotic, and antimicrobial activities.

Prof. Dr. Konstantinos E. Litinas Guest Editor













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Message from the Editor-in-Chief

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