Special Issue

Plant Isoprenoids

Message from the Guest Editors

Isoprenoids called also terpenoids, are constituents of all living cells, but they are especially abundant in plant tissues. They constitute the most structurally (>50,000 compounds) and functionally diverse class of plant natural products, including both essential primary metabolites and a broad range of secondary metabolites - also termed 'specialized' to underline their vital functions in plant cells, e.g. as stress-responsive compounds, attractants, repellents, modulators of allelopathic interactions, etc. The profile of plant isoprenoids (the 'terpenome') is species- but also cell-type specific. Moreover, some isoprenoids are produced constitutively while the synthesis of others is induced in response to environmental cues. To maintain the required cellular balance of particular isoprenoids a precise and strictly regulated metabolic network exists. Last but not least, numerous applications of plant isoprenoids make them the most commercially exploited group of plant-derived natural products. This Special Issue aims to present the latest achievements in the field of studies on metabolic routes and elucidations of function of plant isoprenoids.

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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.

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