Special Issue

Capsaicin—2nd Edition

Message from the Guest Editor

Capsaicin has been long considered a chemopreventive agent that exhibits anti-growth activity against various lines of cancer cell lines, often associated with its apoptotic activity. However, numerous reports have demonstrated that capsaicin possesses paradoxical effects on cellular functions and is differentially cytotoxic toward cancer cells and non-cancerous cells. The specific target(s) of capsaicin and the resulting mechanisms underlying those differences are not yet fully understood, and remain to be discovered. This Special Issue is devoted to recent developments in this very important and emerging area of research. The scope is broad, and includes, but is not limited to, the effect of capsaicin on cellular-signaling events in the functioning, growth and differentiation of cells in normal and pathological states; the effect of capsaicin on the regulation of protein expression in different states; the effect of capsaicin on gene expression; bioinformatic studies related to the mechanisms of signaling events and gene regulation; and studies of capsaicin agonists and antagonists.

Guest Editor

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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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