

Special Issue

Molecular Mechanism of Anti-inflammatory Actions of Natural Components

Message from the Guest Editors

It has been well documented that natural components could play critical roles in modern anti-inflammatory drug development. Inflammatory substances are usually divided into two main categories: pro- and anti-inflammatory mediators. Among the inflammatory mediators and cellular pathways that have been extensively studied in association with human pathological conditions are cytokines, chemokines, eicosanoids and the potent inflammation-modulating transcription factor nuclear factor κ B. Natural components have been reported to exert anti-inflammatory activity both in vitro and in vivo conditions, and they have an impact on the pro-inflammatory gene expression, such as cyclooxygenase-2, nitric oxide synthase, pivotal cytokine etc. In this Special Issue, we will discuss the natural components, their roles in inflammation, and the therapeutic potential of these agents. The papers published here will surely contribute to proposing new additional insights into the anti-inflammatory mechanism of natural components.

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