

Tentative Outline
Special issue for The Current Molecular Pharmacology Journal
Guest Editors: Vinod Kumar and Anil K. Sharma,

**Emerging Phytochemicals: Structure-Function Relationship and
Their Therapeutic Potential**

AIMS & SCOPE

This thematic issue aims at summarizing recent research findings concerning phytochemicals which are endowed with the ability to have a remarkable therapeutic potential against diseases including AIDS. However the mechanistic insight into the action of such compounds is still not very clear. Phytochemicals comprise of Terpenoids which also constitute an important class of Bioactive compounds and the active components in them include diterpenoid, atisane lactones, phenolic, Kaurane and Phorbol diterpenes along with diverse array of triterpenes which have been shown to have antineoplastic, anti-HIV activities etc. Today, with the incidence of antibiotic resistance, cancers and many other emerging infectious diseases, plant derived phytochemicals continue to provide new structural leads for the chemotherapeutic industry. The special issue will uncover many physico-chemical interactions persisting with regards to terpenoids, structural-activity relationships and more importantly their therapeutic potential. The work will not only enhance and strengthen the understanding of multidisciplinary experts from academia, research and industry to communicate their viewpoints in this special issue of Current Molecular Pharmacology Journal but also simultaneously investigate a link between natural and synthetic Bioactive compounds with regards to their composition, structure and therapeutic efficacy leading a passage for new drug development.

Key Words: Phytochemicals; Bioactive compounds; Terpenoids; Therapeutic potential; Immunobiology; HIV; Tuberculosis; Cancer; Structure-function Analysis

Subtopics:

Structure-function relationship of Phytochemicals with a broad spectrum therapeutic potential

Mycobacterium tuberculosis, HIV and Phytochemicals

Anti-HIV agents and Terpenoids

Natural versus Synthetic Terpenoids: structure, composition and therapeutic analysis

Immunobiology of Phytochemicals and Cancer

Terpenoids interactions during therapy with Metals

Iron metabolism versus Phytochemicals

Phytochemicals and drug resistance in cancer

Phytochemicals and drug resistance in Tuberculosis

Schedule

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