Title: Novel Anticancer Compounds from Nature

Aims & Scope:

In the recent years therapy of major acute and chronic diseases, like microbial based one and cancer, suffers more and more progressive failures mainly due to resistance phenomena to commonly known and used chemotherapeutics. Thus in the last decades attention of researchers and clinicians has been turned to nature as a re-discovered source of new drugs. To witness such a novel tendency of chemical and pharmacological research a huge number of contributions, both in terms of review or study articles, have appeared in the literature. In this context the aim of this special issue entitled "Novel lead compounds from nature" wishes to represent a survey of contributions of eminent scientists all over the world about the last discoveries about known or novel classes of natural products newly identified as anti-cancer, neuroprotective, anti-bacterial, anti-inflammatory agents and for several other beneficial effects. These new findings will surely represent the ideal basis to consider such natural products as novel lead compounds for a novel generation of semi-synthetic chemicals featured by more potency, more selectivity in triggering the right biological targets, and less side effects.

Keywords:

Natural Products, Phytochemistry, Pharmacology, Pharmacognosy, Neuroprotection, Inflammation, Cancer

Subtopics:

1. Proanthocyanidins as bioactive natural compounds on biofilms and inflammation
2. A novel class of biologically emerging natural products: oxyprenylated secondary metabolites
3. Chemistry and biology of sesterpenoids with anticancer activity
4. Chalcones as promising lead compounds as adjuvant on cancer therapy
5. Novel Flavonoids for breast cancer treatment
6. Polymethoxylated flavones from citrus fruits and the central nervous system
7. Dendrogenin A: a newly identified steroidal alkaloid in mammals and a drug candidate for cancer treatment
8. Phomoxanthon A from mangrove forests to anticancer therapy.

Schedule:

Deadline for manuscript submission: April 30th, 2015
Deadline for peer review: May 30th, 2015
Deadline for manuscript revision: June 30th, 2015
Deadline for complete submission of the theme issue: October 31st, 2015