Tentative Outline

Anti-Cancer Agents in Medicinal Chemistry

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Anti-Cancerous Heterocycles in Focus

Aims & Scope:

Presently, cancer has now become the alarming cause of death worldwide. It has been reported that cancer can be caused by one of the three ways namely, incorrect diet, genetic predisposition and environmental contaminants. Consistent efforts have been made to fight against this disease in the past few years. About 50% of all anticancer drugs approved internationally are either natural products or natural product mimics and were developed on the basis of the knowledge obtained from small or macromolecules existing in nature.

Recently, various heterocycles have attracted considerable focus in the field of anticancer research. Among them, derivatives are an important class of five membered nitrogen-oxygen containing heterocyclic compounds that exhibited promising anti-neoplastic properties. Viewing the importance of natural products as well as heterocycles containing hybrid pharmacores in the field of cancer research, the present thematic issue is mainly focused on those natural products as well as synthetic analogs which bear heterocyclic moiety exhibiting anticancer potential. Furthermore, articles covers various routes, influence of stereo-models, use of insilico techniques and structure activity relationship studies particularly related to anticancer activity of such compounds are most welcome.

Key words:

Anti-neoplastic agents, cancer therapy, heterocycles, *in-sililco* studies, mechanistic pathways and targets

Subtopics:

Nitrogen containing heterocycles in the management of cancer.
Azole based nucleoside analogues as potential antitumour agents.
Design, Synthesis and evaluation of some azole based heterocycles as anticancer agents.
Role of Iron chelation and drug resistance in cancer.
Applications of In silico approaches to fight against cancer.
Medicinal Potential of Natural Products and Functional Foods in Cancer.
Genomic and emerging biomarkers for immunotherapy of different cancers.
Green synthesis of anticancer molecules.

Schedule:

Manuscript submission deadline: **30 July, 2018**

Peer Review Due: **30 August, 2018**

Revision Due: **30 September, 2018**

Notification of acceptance by the Guest Editor: **15 October 2018**

Final manuscripts due: **30 November 2018**