

## Tentative Outline

### Special Thematic Issue for Current Topics in Medicinal Chemistry

#### Anti-Cancer Drug discovery: structure, function, and novel strategy - Part III

*Guest Editor: Dr Suman S Thakur*

#### **Aims & Scope:**

Development of novel anti-cancer drugs is one of the most important theme in cancer research. Natural products and synthetic compounds have been searched extensively to cure different kinds of cancers and still search is on for finding the novel compounds. Great effort has been done to find the target of anti-cancer drugs. Further target specific compound is being developed to cure cancer. Correlation between structure and function is one of the important aspects for success of anti-cancer compounds. In recent years strategic drug development program against the cancer has been initiated including high throughput screening of compound using bioinformatics, various cell lines, patient-derived tumor xenografts and drug delivery system. The purpose of this special thematic issue is to summarize the use of ongoing strategy for anti-cancer drug discovery and their valuable contribution for the expansion in the field of medicinal chemistry.

**Keywords:** Anti-cancer drug, structure, function, Medicinal chemistry, and Drug development

#### **Subtopics:**

The subtopics to be covered within this issue are listed below:

- Novel Natural product compounds: Flora to Fauna (including marine resources)
- Developing better synthetic compounds /ligands: Targeting the receptor, oncogene, signaling pathway, DNA-Protein interaction, Epigenetics
- Looking towards Peptide: acyclic to cyclic, (including natural and synthetic)
- Structure and Function
- High throughput screening of compound including Repurposing of Drug
- Development of Drug using New model system /Proteomics /transcriptomics / genomics approach
- Understanding the complex cancer signaling mechanism of metabolome and proteome including post translation modification
- Monoclonal antibody and activation of cancer suppresser gene

### Schedule: Research Article / Review

- ✧ Manuscript submission deadline : 31 December 2019
- ✧ Peer Review Due : 31 January 2020
- ✧ Revision Due : 1 March 2020
- ✧ Announcement of acceptance by the Guest Editors : 15 March 2020
- ✧ Final manuscripts due : 31 March 2020

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