**Anti-Cancer Agents in Medicinal Chemistry**

*Guest Editor(s): Lesheng Teng and Robert J. Lee*

**TITLE:**

Development of Anti-Cancer Agents in Pharmacology and Pharmaceutics

**Aims & Scope:**
The aim of this Hot Topic is to describe advances that have been made in the natural and synthetic of Anti-Cancer Agents by the use of pharmacology and pharmaceutics. Over recent decades, much hope, and research effort, has been invested in medicinal chemistry and rational drug design for the discovery of anti-cancer agents. However, many of the strengths or weaknesses of drugs were not consistent with the original design. A demand in searching alternative anti-cancer agents is therefore highlighted in the current research. Extensive studies have focused on treating various cancers with natural and synthetic compounds; however, the unrevealed molecular pharmacology mechanisms limit their clinical using. Experimental evidences are necessary to identify the agents can be served as potential candidates for cancer administration. Association with or encapsulation within nanosized drug delivery systems could help to solve problems such as lack of stability in physiological fluids and poor penetration into cells.

**Key words:**

Drug design, Pharmacology, Pharmaceutics, Anti-Cancer Agents.

**Subtopics:**

1. Microfluidic synthesis of nanocarriers for anti-cancer agents delivery
2. Targeting delivery system for cancer therapeutics
3. Novel natural anti-cancer agents for cancer therapeutics

**Schedule:**

- Manuscript submission deadline: 12/17/14
- Peer Review Due: 01/17/15
- Revision Due: 03/04/15