

Tentative Outline

Special Issue for Current Topics in Medicinal Chemistry

Recent Advances in Cancer Metabolism and Related Drugs Development

Guest Editors: Xiaoming Zha

Aims & Scope:

Cancer metabolism is one of the oldest research areas in cancer biology. Tumor reprogram pathways of nutrient acquisition and metabolism meet the bioenergetic, biosynthetic, and redox demands of malignant cells. Because some altered metabolic features are observed generally across many types of cancer cells, reprogrammed metabolism is considered a hallmark of cancer. Reprogramming may be regulated intrinsically by tumorigenic mutations in cancer cells or extrinsically by influences of the microenvironment. Currently, targeting the signaling pathways of cancer metabolism is an attractive research field for cancer therapy. To date, several molecules targeting tumor metabolism have been approved for clinical treatment. To reflect recent advances in this field, the thematic issue of Current Topics in Medicinal Chemistry welcomes reviews or perspectives on the biological roles of cancer metabolism, related inhibitors for cancer therapy and future outlooks and directions for cancer metabolism research field.

Keywords: Cancer metabolism, Targets, Drug discovery, Inhibitors.

Subtopics:

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

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- Biological roles of cancer metabolism.
- Strategies, tools and techniques for identification of new inhibitors targeting cancer metabolism.
- Development of inhibitors targeting the signaling pathways that regulate cancer metabolism, particularly targeting the key rate-limiting enzymes.
- Perspectives and future outlooks of a specific area targeting metabolism for cancer therapy.

Schedule:

Manuscript submission deadline: September 30, 2018

Peer Review Due: October 31, 2018

Revision Due: November 30, 2018

Announcement of Acceptance by the Guest Editors: December 10, 2018

Final Manuscripts Due: August 15, 2019

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