

Tentative Outline

Special Issue for Current Pharmaceutical Biotechnology

Title of thematic issue: Discovery of Protein-Targeted Antitumor Inhibitors: Biocharacterization, Molecular Mechanisms and Pharmaceutical Applications.

Guest editors: Jianqiang Xu, PhD. & Jun Lu, PhD.

Aims & Scope:

In the latest cancer research and antitumor drug discovery, targeting cellular key protein(s) or enzyme(s) with physiological functions provides us a very useful approach for searching and developing effective anticancer drugs. The specificity, reacting capacity and the underlying mechanism of small inhibitors or natural pharmaceutical molecules towards the drug targets are very attractive topics in current pharmaceutical biotechnology. Thus, this special issue expects to collect very recently important studies of novel designed structures or anticancer inhibitor with remarkable cellular targets. This special issue also expects to select all in-depth investigations to reduce the side effects of anticancer molecules, to enhance the synergic effects, to improve pharmacological function and to decrease toxicological properties. The studies, including those using natural herb extracts or antioxidants for anticancer therapeutic purposes, enzyme target-based free radical research, redox rebalance and microenvironment regulation, are thereby very warmly welcome. The use of small molecules is not limited to natural plant resource or known drugs, but could also be extended to small chemicals, dyes, pigments, probes, nutrients, trace elements and heavy metal ions. The purpose of this special issue is to call for all pharmaceutical and biotechnological opinions/studies on anticancer small molecules targeting cellular protein/enzyme, intending for clinical application in the effective therapy of human cancer and even other cancer-related diseases.

Keywords:

Antitumor effect, Antioxidants, Chemotherapy, Drug screening/validation, Inhibitory effect, Mechanism, Natural herb extracts, Protein target, Redox regulation, Small molecular inhibitor.

Subtopics:

- Antitumor inhibitors' (HTS) screening/validation
- Prodrug/drug discovery from the natural herb resource
- Antioxidants, trace elements, heavy metal ions and other antitumor probes
- Small molecules targeting cellular protein/enzyme targets
- Protein-targeted molecules related to matrix biology or selenium biology
- Biocharacterization and medical application of plant extracts
- Enzyme target-based free radical research
- Redox rebalance and microenvironment regulation
- Biochemical pharmacology, toxicology and biotechnology

Schedule:

- Manuscript submission deadline: December 1, 2020
- Peer review due: August 15, 2021
- Revision due: September 15, 2021
- Announcement of acceptance by the Guest Editors: October 01, 2021
- Final manuscripts due: October 15, 2021.

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