

Tentative Outline

Special/Thematic Issue for “Current Topics in Medicinal Chemistry”

Title: Challenges, Consequences and Possible Treatments of Anticancer Drug Discovery

Guest Editors: Dr. Luciana Scotti

Co-Guesr Editor: Dr. Marcus Tullius Scotti

Aims & Scope:

Anticancer activity of products is extensively researched, as cancer is a leading cause of death in the global population. The World Health Organization inform that before the pandemic it was responsible for one out of six deaths. In males, the most common types of cancer are prostate, lung, colorectal, stomach and liver; while in female we observed lung, breast, colorectal, cervical and thyroid. The uncontrollable growth of the cells in organs and tissues has a dubious origin, goes through resistance and recurrence, reaching metastasis and death. The complete cure of cancer remains a major scientific challenge. Several medicinal chemistry studies report different approaches using these compounds in drug discovery, that comprises synthesis, semi-synthesis, searches for new targets, evaluation of biological activities, and/or theoretical approaches as structure-based approaches, SAR, QSAR, docking and cheminformatics methods. The objective for this thematic issue is to report recent studies against the cancer for the treatment or cure of this disease.

Keywords: cancer, enzymatic target, Drug development, medicinal chemistry, QSAR

Subtopics:

- Therapeutic and diagnostic applications of drugs
- Computational approaches for the drug development
- Targeting and delivery

Tentative titles of the articles:

- Natural Products and Current target specific cancer treatment
- Pain and new Anticancer agents
- α -Glucosidase inhibitory potential of isolated alkaloids through Molecular docking
- Molecular Docking applied to cancer targets
- Advances in nanoparticles as anticancer drug delivery
- Monte Carlo Method
- Current structure-based design of potent EGFr, FGFr, PDGFr, VEGFr and HGFr inhibitors targeting cancer
- Enzymatic targets – Newer approach to explore anti-cancer potential from medicinal plants

Schedule:

- ✧ Manuscript submission deadline: 1st April, 2023.
- ✧ Peer Review Due June, 2023
- ✧ Announcement of acceptance by the Guest Editors/ Submission of the issue: 30 March, 2023

Contacts:

GUEST EDITOR:

Name: Luciana Scotti

Affiliation: Federal University of Paraíba, Campus I; 58051-970, João Pessoa, PB, Brazil.

E-mail: luciana.scotti@gmail.com

Co-GUEST EDITOR:

Name: Marcus Tullius Scotti

Affiliation: Federal University of Paraíba, Campus I, Brazil.

E-mail: mtscotti@gmail.com / mtscotti@ccae.ufpb.br