

## Tentative Outline

### Special Issue for PROTEIN & PEPTIDE LETTERS

Guest Editor: Mariana S. Castro

## ANTITUMOR PEPTIDES AND PROTEINS

### Aims & Scope:

The development of therapies based on peptides and proteins has emerged as a new strategy to cancer therapy. These treatments are advantageous due to their ability to avoid the defense mechanisms of tumor cells, causing their death. The development of new drugs targets specific characteristics of cancer cells such as angiogenesis and important kinase proteins. Despite the huge therapeutic potential, the use of natural peptides and proteins has been made unfeasible by uncountable factors, to illustrate, immunogenicity and short life span in the blood. In addition, the development of therapies based on peptides and proteins should present strong tumoricidal activity and low toxicity. Thereby, new strategies are being developed to increase their usability and efficiency. In this special issue, we will provide an update on the progress made during the last years on the identification of new anticancer peptides and proteins, novel targets and strategies for improving their use.

### Key words:

Cancer; Treatment; Anticancer Peptides and Proteins; Targeted Cancer Therapy

### Review articles:

*1-Antitumor peptides and proteins: a panoramic view*

Authors: Michelle S. Libério, Grazielle A. Joanitti, Wagner Fontes and Mariana S. Castro

*2- Roles of lactoferrin in regulation of survivin in cancer*

Authors: Jagat R. Kanwar, Cassandra May Baker and Rupinder K. Kanwar

*3- Type I interferons: ancient peptides with still under discovered anti-cancer properties*

Authors: Michele Caraglia, Monica Marra, Alessandra Dicitore, Sara Castiglioni, Angela Lombardi, Luca Persani, Pasquale Sperlongano, Alberto Abbruzzese and Giovanni Vitale

*4- Red blood encapsulated L-asparaginase therapy of patients with asparagine synthetase deficient acute myeloid leukemia*

Authors: Gautham Borthakur, Vaidehi Agrawal, Jung Hee Woo, Hagop Kantarjian, Yann Godfrin and Arthur E. Frankel

*5- lGnRH-III - a promising candidate for anticancer drug development*

Authors: Marilena Manea and Gábor Mező

*6- Lunasin, a seed peptide with promising cancer preventive properties*

Authors: Blanca Hernández-Ledesma, Chia-Chien Hsieh, Ben O. de Lumen

*7- Fungal and bacterial proteins with antiproliferative and anticancer activities*

T.B.Ng and J.H. Wong

### Regular papers:

*1- Synergistic Enhancement of Cancer Therapy using a Combination of Fusion Protein MG7-scFv/SEB and Tumor Necrosis Factor Alpha*

Authors: Xiaoming Lu, Chao Cheng, Guobin Wang, Jingwei Ma, Xiaogang Shu and Qiang Tong

**Submission deadline for Authors:**

September 2011