Tentative Outline
Special Issue for CURRENT DRUG TARGETS
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THERAPEUTIC MODULATORS OF CELLULAR SENESCENCE: COMMON TARGETS IN CANCER AND AGING

Aims & Scope:

Increasing evidence has been documented on the role of cellular senescence in cancer, aging and various age-related diseases. Potentially harmful properties of senescent tumour cells make their quantitative elimination a therapeutic priority as the risk that therapy-induced senescent cancer cells may escape cell cycle arrest and resume proliferation is consistent. At the same time, strategies aimed to remove senescent cells, or to delay their appearance, are attractive for the development of therapies in age-related diseases. Indeed, age related alteration in immune system may impair immune-mediated elimination of senescent cells. The purpose of this thematic issue is to describe our current understanding and hypothesis on the role of senescent cells in cancer and aging and to provide the rationale for senescence-based therapy using different approaches.

Key words:
Cellular senescence; aging; cancer; SASP; therapeutic targets

Subtopics:
Characterization and mechanisms leading to cellular senescence
Induction of cellular senescence in cancer cells
Modulators of cellular senescence in normal cells
Senescence-associated secretory phenotype and age-related diseases
Senescent cells as therapeutic targets in cancer, aging and age-related diseases
Immunosenescence and accumulation of senescent cells
Escape of tumor cells from cellular senescence

Schedule:
Manuscript submission deadline: September 2014
Peer Review Due: October 2014
Revision Due: November 2014
Notification of acceptance by the Guest Editor: December 2014
Final manuscripts due: December 2014