Title: Genomics and epigenomics of tumor and aging cells

Guest Editors: Gjumrak Aliev, Andrey A. Zamyatin Jr. and Ramon Cacabelos

Aims & Scope: It is well established that aberrant DNA methylation as well as genetic heterogeneity are the hallmarks of malignancies. More recently, it was shown that similar features are accompanying many degenerative processes and in particular aging. However, distinct specific processes of malignant transformation or aging may be characterized by the different changes within particular cell genomics and/or epigenomics. Therefore, in the proposed special issue of Current Genomics entitled “Genomics and epigenomics of tumor and aging cells” we are going to collect recent updates on genomics and epigenomics of aging or malignantly transformed cells in the field of the degenerative diseases including neurodegeneration, dementia, and tumors.

Keywords: epigenomics, genomics, cancer, aging, dementia

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

- genetic heterogeneity in cancers and neurodegeneration
- epigenomics of cancers
- epigenomics of aging and aged associated diseases
- NGS tools for genetic and epigenomics studies

Schedule:

- Manuscript submission deadline: September 30, 2015
- Peer Review Due: December 31, 2016
- Revision Due: January 25, 2016
- Announcement of acceptance by the Guest Editors: February 5, 2016
- Final manuscripts due: February 20, 2016

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