Special Issue

Circulating DNA and Epigenetic Alterations as Biomarkers in Oncology

Message from the Guest Editors

It has been widely demonstrated that the development of tumors is driven by several alterations affecting gene structure and function. Among these alterations, the most studied have been DNA mutations affecting key genes involved in the regulation of cell cycle and cell proliferation. Recently, it was shown that epigenetic alterations, such as DNA methylation, histone modifications, and deregulation of noncoding RNAs (ncRNA), are also involved in neoplastic transformation by inducing the overexpression of oncogenes and the silencing of tumor suppressor genes. It has also been shown that tumor cells, as a consequence of necrotic and apoptotic processes, release in the bloodstream and tumor microenvironment ncRNA and fragments of tumor DNA, the so-called circulating tumor DNA (ctDNA), reflecting the tumor mutational burden.

Guest Editors

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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