

Special Issue

Genomic and Transcriptomic Alterations in Cancer and Aging

Message from the Guest Editor

Carcinogenesis is widely associated with genomic and transcriptomic alterations, including genetic mutations (base substitutions, insertions, deletions, and chromosomal rearrangements), copy number variations, changes in mRNA and noncoding RNA expression levels, and alternatively spliced variants. All these changes also occur during aging that, in turn, is a major risk factor for cancer development. In both cases, the key question is how genomic and transcriptomic alterations support cancer initiation and progression and what their contribution to aging is. The close interconnection of cancer and aging implies the possibly shared mechanisms underpinning the two processes. However, the causative relations are not straightforward, as these processes are fundamentally opposite in the context of cell biological functioning. A better understanding of cancer and aging biology will allow revealing the molecular connections that presently remain unclear.

Guest Editor

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