Inhibitors in the Treatment of Cancer and Neurodegenerative Disorders

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Message from the Guest Editors

Molecular mechanisms that underpin the onset and progression of malignant and neurodegenerative diseases seem to have little in common. Some epidemiological studies add weight to the inverse association between certain types of cancer and neurodegenerative diseases. However, there is no clear consensus on this connotation. Cancer cells escape cell death signals whereas aberrant activation of neuronal cell death is a common hallmark in neurodegenerative diseases. Numerous studies suggest common genetic and epigenetic factors that are implicated in cancer and neurodegeneration. Some of these include p53, ATM gene, Cyclin-dependent kinase 5 (CDK5), glycogen synthase kinase-3 (GSK3), histone deacetylase 2 (HDAC2), Brain-derived Neurotrophic Factor (BDNF), changes in microRNA (miRNA) expression and many more.

To improve our understanding of the crosstalk between cancer and neurodegeneration, this Special Issue aims to discuss the novel therapeutic agents able to target aberrant molecular mechanisms common in cancer and neurodegenerative diseases.

Special Issue

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Message from the Editor-in-Chief

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