

Special Issue

Inhibitors in the Treatment of Cancer and Neurodegenerative Disorders

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.

Guest Editors

Prof. Dr. Katarina Nikolic
Prof. Dr. Biljana Bufan
Dr. Dusan Ruzic

Deadline for manuscript submissions

closed (31 January 2024)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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