

Special Issue

Pleiotropic Effect of α -Adrenergic Receptors in Human Cancers and Other Human Disease

Message from the Guest Editor

Recently, a growing number of studies have suggested that bio-behavioral factors, especially various stress-related persistent stimulations, might accelerate cancer progression, which is mainly due to α -adrenergic system activation. α -Adrenergic receptors on the tumor and stromal cells are activated by catecholamines such as adrenaline and noradrenaline. Based largely on retrospective analyses, pharmacological inhibition of the α -adrenergic receptors using beta blockers has shown clinical anticancer efficacy in many human cancers. In particular, recent advances have evidenced a role of the α_3 -adrenoreceptor in different pathways involved in cancer progression, apoptosis, antioxidant action, metastasis, and microenvironmental transformation. This Special Issue on "Pleiotropic effect of α -Adrenergic receptors in human cancers" of the *International Journal of Molecular Sciences* aims at providing new insights into the various functions of α -Adrenergic receptors in the several aspects of cancer progression mechanisms.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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