



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

Guest Editor:

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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 β -adrenergic system activation.

β -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 β -adrenergic receptors using beta blockers has shown clinical anticancer efficacy in many human cancers. In particular, recent advances have evidenced a role of the β_3 -adrenoreceptor in different pathways involved in cancer progression, apoptosis, antioxidant action, metastasis, and microenvironmental transformation.

This Special Issue on “Pleiotropic effect of β -Adrenergic receptors in human cancers” of the *International Journal of Molecular Sciences* aims at providing new insights into the various functions of β -Adrenergic receptors in the several aspects of cancer progression mechanisms.

Dr. Claudio Favre
Guest Editor





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Message from the Editor-in-Chief

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