

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

Dr. Claudio Favre

Division of Pediatric Oncology/Hematology, Meyer University Children's Hospital, 50139 Florence, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. José L. Quiles
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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