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Advances in Adrenergic Receptor Biology

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

Adrenoreceptor subtypes are involved in many biological processes, and their ligands are effective against various diseases with much emphasis to β adrenoceptors, since β blockers mainly targeting β_1 and β_2 subtypes were introduced in cardiovascular therapy more than 50 years ago. In addition, the recently identified β_3 subtypes have been proven to be interesting pharmacological targets in the cardiovascular system and potential protective properties of mirabegron, a β_3 adrenoceptor agonist, have been recently reported in patients at high risk for developing heart failure. Recent findings suggest that targeting adrenoceptor signaling can be a novel therapeutic approach for treating several diseases including among others the retinopathy of prematurity, nephrogenic diabetes insipidus, diabetes mellitus, rheumatoid arthritis, and other inflammatory diseases. On the other hand, the complex pharmacological profile of adrenoceptor ligands and the still unknown aspects of their regulation have limited their use and applicability in humans.



mdpi.com/si/34856

Special Issue



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