

Special Issue

Similarities and Differences between Chimeric Antigen Receptor and T Cell Receptor Signaling

Message from the Guest Editor

T cell-based immunotherapy has revolutionized the treatment of malignant B hemopathies, and its future advances could lead to effects on solid cancers. Its optimization requires a deep knowledge of the molecular mechanisms that regulate the signaling of engineered antigen T cell receptors, which are either synthetic antigen T cell receptors (TCRs) or chimeric antigen receptors (CARs). Several recent studies have highlighted the similarities and differences between the signaling of these two types of receptors. In addition, we are going through a period of fascinating discoveries in the field of CAR signaling, learning that costimulatory domain, the transmembrane region or the length of the linkers have a major impact on CAR efficiency, probably by changing the trafficking and signaling of the receptor. We are pleased to invite you to participate in this Special Issue that will improve our understanding of molecular mechanisms that govern TCR and various CARs trafficking and signaling. This Special Issue includes original experimental data, literature reviews, and comments on recent developments in the field.

Guest Editor

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Deadline for manuscript submissions

closed (1 August 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/93641

*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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