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Advance in Ion Channel Signaling in Cancer Cells

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Message from the Collection Editors

he large family of membrane-spanning ion channels contributes significantly to the transmission and integration of extracellular signals, both chemical and mechanical, that originate from the microenvironment and stroma where the cells reside. A growing body of studies points to a crucial role of ion channels in the dynamics of neoplastic cells. This collection will gather special contributions showing how cancer cells hijack the physiological functions of different types of ion channels and how changes in their activity and/or expression contribute to the neoplastic phenotype. This Special Issue will also address the involvement of ion channels in a rare subpopulation of cells called cancer stem cells that possess the potential to initiate and sustain tumour growth and to regenerate the tumour after the cessation of treatment. This collection also aims to report the recent developments on the molecular mechanisms, e.g., ion transport or noncanonical channel functions, whereby ion channels contribute to various extents to the pathophysiological features of cancer hallmarks.

We look forward to your contribution in the form of original research or review articles.









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