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Lysosomal Ion Channels in Cell Physiology and Human Diseases

Guest Editor:

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Deadline for manuscript submissions:

closed (1 January 2022)

Message from the Guest Editor

Dear Colleagues,

The physiology and functions of ion channels in the plasma membrane have been extensively studied. Due to the inaccessibility of intracellular membranes. understanding of organellular ion channels is largely hampered. Recent developments in methodology have led to the identification of a plethora of ion channels in the membrane of lysosome. By regulating ion flux across lysosomal membrane, lysosomal ion channels are implicated in cell signaling, nutrient sensing, membrane trafficking, autophagy, gene expression, and organellar communication. Dysfunction of lysosomal ion channels has been associated with numerous human including lysosomal diseases, storage diseases, neurodegenerative diseases, infectious diseases, and cancer. This Special Issue is devoted to publishing original research articles and review papers focusing on the role of lysosomal ion channels in cell physiology and human diseases. We cordially invite you to contribute an article on any aspects related to the theme of this Special Issue.

For further information, please visit the Special Issue website













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