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Calcium-Permeable Ion Channels as Targets in Pharmacotherapy

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Ion channels are pore-forming proteins that are involved and play essential roles in very important physiological and pathological processes; hence, they serve as therapeutic drug targets. Ca^{2+} signaling governs both millisecond-scale cellular activities, such as muscular contraction, and slower functions lasting hours or days, such as cell migration and gene transcription.

Ca^{2+}-permeable ion channels permit the influx or outflux of Ca^{2+} across the cell membrane and play a critical role in human physiology and pathology. This issue will focus on the Ca^{2+}-permeable ion channels that are responsible for the influx of extracellular Ca^{2+}, and these channels are the voltage-gated L- and T-type, TRP superfamily, ORAIs (1-3), Piezo (1, 2), and P2X receptors, which are ligand-gated ion channels.

This Special Issue aims to provide a comprehensive summary of current knowledge of the structure, regulation, function and pharmacology of Ca^{2+}-permeable ion channels in human diseases and disorders as therapeutic targets.

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Message from the Editor-in-Chief

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We hope to handle your contribution to *Pharmaceuticals* soon.

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