

Topical Collection

STIM and Orai Communication in Health and Disease

Message from the Collection Editor

Accurately tuned intracellular Ca²⁺ signaling is indispensable for the regulation of a plethora of cellular processes occurring over a wide temporal range, including for instance neuronal signaling, proliferation, and gene transcription. A single defect of one of these molecular key players can lead to abnormal cytosolic Ca²⁺ levels, which can be responsible for severe disorders in the immune system, heart function, and neurons or even for cancer. A prominent Ca²⁺ signaling pathway in the cell represents the CRAC channel, composed of two molecular key STIM1 players, a Ca²⁺ sensor in the endoplasmic reticulum, and Orai1, a highly Ca²⁺ selective ion channel in the plasma membrane. These two proteins and their isoforms have been known for more than a decade, and a series of milestones have been reached in the understanding of their structure–function relationship, interplay, and co-regulation with modulatory factors as well as their significance in disease. Herewith, I would like to cordially invite you all to contribute to this Topic Collection on “STIM1 and Orai1 Communication in Health and Disease”.

Collection Editor

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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