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Calcium Signaling: Cell

Calcium ions (Ca^{2+}) impact nearly every aspect of cellular life. This review examines the principles of Ca^{2+} signaling, from changes in protein conformations driven by Ca^{2+} to the mechanisms that control Ca^{2+} levels in the cytoplasm and organelles.

Calcium signaling - Wikipedia

Calcium signaling through ion channels is also important in neuronal synaptic transmission. Calcium as a second messenger [edit] Calcium is a ubiquitous second messenger with wide-ranging physiological roles. [2] Calcium Signaling - an overview | ScienceDirect Topics Calcium signaling in smooth muscle is a varied affair. The types of local and global calcium signals, the release process from the internal calcium store (SR, Sarcoplasmic Reticulum), and the calcium homeostatic control mechanisms found in this one cell type encompass most of the mechanisms only found separately in other cell types.

Some of this diversity can perhaps be explained by the Calcium Signaling and Neurodegeneration

The calcium hypothesis of AD pathogenesis. The central idea for explaining AD pathology is currently the amyloid hypothesis, which states that the main reason for neuron death and the decreased number of synapses during this disorder is the increased production of A β 2 amyloid peptide.

Calcium Signaling - eshperspectives.eship.org

Electrical, hormonal, and mechanical stimulation of cells can produce calcium signals by causing entry of the ion across the plasma membrane or its release from intracellular stores.

Calcium Signaling: M. Morad: 9781586031572: Books - Amazon.ca

The processes that use or regulate calcium as a biological signal to transmit information or initiate functions such as exocytosis signaling and contraction are highly developed and specialized for the functional needs of a particular tissue.

Calcium Signaling | Md. Shahidul Islam | Springer

Calcium signaling contains a unique selection of chapters that cover a wide range of contemporary topics in this ubiquitous and diverse system of cell signaling. This book has the flavor of a primary text book, but it is much more than that. It covers topics ranging from the fundamental aspects of

CCN3 and calcium signaling | Cell Communication and ...

The increased intracellular calcium level induced by

CCN3 might also involve different voltage-independent calcium channels, among which receptor operated calcium channel and capacitative calcium entry channel may be of considerable importance in regulating this calcium influx.

[Calcium Signaling in Smooth Muscle - PubMed Central \(PMC\)](#)

SMOOTH MUSCLE. Smooth muscle cells form a continuous layer that lines the walls of the hollow organs of the body, such as blood vessels, intestines, urinary bladder, airways, lymphatics, penis, and uterus.

[Dynamical patterns of calcium signaling in a functional ...](#)

We propose a functional mathematical model for neuron-astrocyte networks. The model incorporates elements of the tripartite synapse and the spatial branching structure of coupled astrocytes.

[Calcium Signaling | SpringerLink](#)

They examine calcium signaling in a host of contexts, from mammalian cells to oocytes, zebrafish and plants. With much of interest to newcomers to the field as well as seasoned experts, this new publication is both wide-ranging and authoritative.

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Intracellular free Ca^{2+} ($[\text{Ca}^{2+}]_i$) is a highly versatile second messenger that regulates a wide range of functions in every type of cell and tissue.