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Cross talk between cyclic AMP and calcium signaling is critical for normal physiology. Calcium can regulate cyclic-AMP-generating enzymes directly or indirectly via calmodulin, calcineurin, protein kinase C, and G proteins.

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Calcium signaling. 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 - Cold Spring Harbor Perspectives in Biology

Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology explores the channels and pumps that transport calcium between different compartments and the regulation of calcium fluxes. The contributors discuss calcium buffers and sensors and how these produce distinct spatiotemporal calcium signals in different circumstances.

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Fundamentals of Cellular Calcium Signaling: A Primer Journal Item How to cite: Bootman, Martin D. and Bultynck, Geert (2019). Fundamentals of Cellular Calcium Signaling: A Primer. Cold Spring Harbor Perspectives in Biology (Early Access). For guidance on citations see FAQs. c 2019 Cold Spring Harbor Laboratory Press
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Signaling in muscle contraction - PubMed

Calcium signaling is the use of calcium ions to communicate and drive intracellular processes often as a step in signal transduction. Ca²⁺ is important for cellular signalling, for once it enters the cytosol of the cytoplasm it exerts allosteric regulatory effects on many enzymes and proteins. Ca²⁺ can act in signal transduction resulting from activation of ion channels or as a second messenger caused by indirect signal transduction pathways such as G protein-coupled receptors.

Calcium signaling - Wikipedia

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1. Cold Spring Harb Perspect Biol. 2019 Jul 1;11(7). pii: a035188. doi: 10.1101/cshperspect.a035188. Astroglial Calcium Signaling in Aging and Alzheimer's Disease. Verkhratsky A(1) (2) (3). Author information: (1)Faculty of Biology, Medicine and Health, The University of Manchester, Manchester M13 9PT, United Kingdom.