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Signaling pathways regulate contraction of striated (skeletal and cardiac) and smooth muscle. Although these are similar, there are striking differences in the pathways that can be attributed to the distinct functional roles of the different muscle types. Muscles contract in response to depolarizati ...

### 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. Ca<sup>2+</sup> is important for cellular signalling, for once it enters the cytosol of the cytoplasm it exerts allosteric regulatory effects on many enzymes and proteins. Ca<sup>2+</sup> 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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the channels and pumps that transport calcium between different compartments and the regulation of calcium fluxes calcium signaling cold spring harbor perspectives in biology pmca pumps and ncx exchangers both transport calcium out of cells ncx counteracts large ca<sup>2+</sup> variations in excitable cellspmca pumps were thought to have a

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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.

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