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Calcium can regulate cyclic-AMP-generating enzymes directly or indirectly via calmodulin, calcineurin, protein kinase C, and G proteins.

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channels and pumps
that transport calcium
between different
compartments and the
regulation of calcium
fluxes.

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Calcium ions regulate processes as diverse as cell motility, gene transcription, muscle contraction, and exocytosis (Berridge et al. 2000). The first realization that they are critical for cellular function is often attributed to Sydney Ringer, who discovered in 1883 that saline solution made up using London tap water (which contained

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calcium) supported the
contraction of isolated
frog hearts ...

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Aberrant calcium
signaling is associated
with various
pathologies (e.g.,
cancer and
neurodegeneration) as
well as aging. Written
and edited by experts
in the field, this

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Perspectives in Biology
provides a

comprehensive update
on major facets of
calcium signaling.

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Photolysis to

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Calcium (Ca^{2+}) is a ubiquitous signaling molecule that accumulates in the cytoplasm in response to diverse classes of stimuli and, in turn, ...

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receptors (NMDARs)
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regulate contraction of
striated (skeletal and
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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 ...

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intracellular Ca^{2+}
concentration underlie
the contractile function
of the heart. These

heart muscle-wide
changes in intracellular
 Ca^{2+} are induced and
coordinated by
electrical

depolarization of the
cardiomyocyte
sarcolemma by the
action potential.

Originating at the
sinoatrial node,
conduction of this
electrical signal

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the role of NAADP-
mediated Ca^{2+}
release from
endolysosomal stores
as a widespread trigger
for intracellular calcium
signaling mechanisms,
and how studies of
TPCs are

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Calcium signaling is the use of calcium ions (Ca^{2+}) to communicate and drive intercellular processes often as a step in signal transduction. Ca^{2+} is important for cellular signalling, ... Cold Spring Harbor Perspectives in Biology. 3 (9): a004549.

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