

1. Record Nr.	UNINA9911020436403321
Titolo	Calcium and the cell
Pubbl/distr/stampa	Chichester ; ; New York, : Wiley, 1986
ISBN	9786612345821 9781282345829 1282345826 9780470513347 0470513349 9780470513354 0470513357
Descrizione fisica	1 online resource (312 p.)
Collana	Ciba Foundation symposium ; ; 122
Altri autori (Persone)	EveredDavid WhelanJulie
Disciplina	574.19/214
Soggetti	Calcium - Physiological effect Calcium-binding proteins Cellular control mechanisms
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Editors: David Evered (organizer) and Julie Whelan. "Symposium on Calcium and the Cell, held at the Ciba Foundation, London, 22-24 October 1985"--p.v. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	CALCIUM AND THE CELL; Contents; Participants; Introduction; Voltage-dependent mechanisms for raising intracellular free calcium concentration: calcium channels; Voltage-dependent mobilization of intracellular calcium in skeletal muscle; Inositol trisphosphate and calcium mobilization; The calcium pump of plasma membranes; The sodium-calcium exchange system; Structural and mechanistic implications of the amino acid sequence of calcium-transporting ATPases; General discussion; Calcium binding to skeletal muscle troponin C and the regulation of muscle contraction The physics and chemistry of the calcium-binding proteins Regulation of the calcium signal by calmodulin; Smooth muscle: regulation by

calcium and phosphorylation; Role of protein kinase C in calcium-mediated signal transduction; Calcium in the action of growth factors; Calcium and the regulation of cytoskeletal assembly, structure and contractility; Calcium and exocytosis; Calcium and morphogenetic fields; Index of contributors; Subject index

Sommario/riassunto

This collection of presentations from the Ciba Foundation Symposium of 1985 deals with the central role of calcium in intracellular processes. Discusses control of intracellular calcium as well as control by intracellular calcium, covering such topics as muscle contraction, metabolic processes, hormone and transmitter secretion, membrane transport and permeability, cellular architecture and growth, and the possible contribution of calcium gradients to early embryonic development. Includes carefully edited and extensive (almost half the book) discussions of chapter topics between active workers
