

# CALCIUM AND CALMODULIN FUNCTION IN THE CELL NUCLEUS%0A

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Calmodulin Definition. Calmodulin, or calcium-modulated protein, is a calcium-binding protein found in the cytoplasm of all eukaryotic cells. It interacts with many other proteins in the cell, and acts as a regulator or an effector molecule in a wide variety of cellular functions.

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**CALCIUM AND CALMODULIN FUNCTION IN THE CELL NUCLEUS**

the way to understand the roles of calcium in the regulation of nuclear functions. It should be emphasized that calmodulin, the major calcium binding protein in non-muscle and smooth muscle cells, is present in the nucleus.

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**Calcium and Cell Function ScienceDirect**

Calcium and Cell Function, Volume I: Calmodulin covers calmodulin-regulated functions. The book discusses the preparation, properties, structure, function, evolution, and structure-function relationships of calmodulin; and calmodulin-dependent adenylate cyclase. The text also describes the transport of calmodulin and plasma membrane calcium; the role of calmodulin and troponin in the regulation of phosphorylase kinase from mammalian skeletal muscle; and calcium-dependent protein <http://elevatecoworking.co/Calcium-and-Cell-Function-ScienceDirect.pdf>

**Calcium and Calmodulin Function in the Cell Nucleus**

Different calcium binding proteins, which are the targets of cellular calcium, have been identified in the nucleus of many different cell types. Prominent among these calcium binding proteins is calmodulin, which appears to be involved in the regulation of major nuclear functions such as gene expression and

DNA replication.

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### **Calcium and calmodulin function in the cell nucleus eBook**

Calcium and calmodulin function in the cell nucleus. [Oriol Bachs; Neus Agell] -- This book is about the role of calcium and calmodulin in the cell nucleus. Calcium, which is an important second messenger of signal transduction pathways, can also operate in the cell nucleus.

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### **Calcium and Calmodulin Mediated Regulation of cell com**

In addition to the intracellular (cytosolic and nuclear) functions of CaM, recent evidence suggests the presence of extracellular CaM and CaM-binding proteins in plants, as well as the regulation of important physiological functions by extracellular CaM, including proliferation of suspension-cultured cells, pollen germination and tube growth, and stomatal closure

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### **Calmodulin Wikipedia**

Calmodulin (CaM) (an abbreviation for calcium-modulated protein) is a multifunctional intermediate calcium-binding messenger protein expressed in all eukaryotic cells. It is an intracellular target of the secondary messenger Ca<sup>2+</sup>, and the binding of Ca<sup>2+</sup> is required for the activation of calmodulin.

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### **Calcium and Cell Function ScienceDirect**

Calcium and Cell Function, Volume III covers the many aspects of research on calcium, dealing with its biochemistry, biology, and pharmacology in animals as well as in plants.

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### **Calmodulin a prototypical calcium sensor Trends in Cell**

Calcium (as Ca<sup>2+</sup>) is an element that is crucial for numerous biological functions. In many organisms, the vast majority of Ca<sup>2+</sup> is complexed with phosphates to form exo- or endoskeletons that not only serve as structural scaffolds but also buffer the levels of Ca<sup>2+</sup> within extracellular fluids at 10<sup>-3</sup> M.

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### **Translocation of calmodulin to the nucleus supports CREB**

It is initiated by a highly local, rise in calcium ion concentration near the cell membrane, but culminates in the activation of a specific calmodulin-dependent kinase known as CaMK IV, which

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