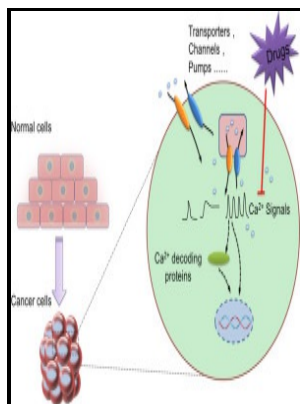


Calcium, cell cycles, and cancer

CRC Press - Calcium and cancer: targeting Ca²⁺ transport



Description: -

-
 Cell Transformation, Neoplastic -- metabolism
 Cell cycle -- physiology
 Calcium -- metabolism
 Adenosine Cyclic Monophosphate -- metabolism
 Cellular signal transduction
 Calcium-binding proteins -- Physiological effect
 Carcinogenesis
 Cell cycle
 Calcium -- Physiological effect
 Calcium, cell cycles, and cancer
 -Calcium, cell cycles, and cancer
 Notes: Includes bibliographical references and indexes.
 This edition was published in 1990



Filesize: 47.11 MB

Tags: #SK4 #channels #modulate #Ca²⁺ #signalling #and #cell #cycle #progression #in #murine #breast #cancer

Calcium, cancer and killing: The role of calcium in killing cancer cells by cytotoxic T lymphocytes and natural killer cells

Expression of endomembrane calcium pumps in colon and gastric cancer cells. CaMK-II inhibition reduces cyclin D1 levels and enhances the association of p27Kip1 with Cdk2 to cause G1 arrest in NIH 3T3 cells.

Calcium signaling and cell cycle: Progression or death — Italian Ministry of Health

Evidence that TRPM8 is an androgen-dependent Ca²⁺ channel required for the survival of prostate cancer cells. The plasma membrane and intracellular membrane proteins responsible for calcium mobilization are shown.

Calcium and cancer: targeting Ca²⁺ transport

The general non-membrane bound areas within the cell are collectively known as the cytoplasm.

Calcium in Cell Cycles and Cancer : James F. Whitfield : 9780849344206

Thus, two or more means of modulation can be utilized in sync to add additional regulation of downstream signaling. These are the possibilities needed for an investigator to recognize when experimenting with calcium signaling and determining how calcium will affect the cell.

Calcium signalling and cancer cell growth

Kállay E, Bajna E, Wrba F, Kriwanek S, Peterlik M, Cross HS. These transcription factors in turn regulate the D-type cyclins, required for activation of cyclin D-CDK4 complexes D-K4. Since the shape of the protein is changed, its function may be changed as well.

Regulation of cell cycle progression by calcium/calmodulin

Focal adhesion kinase FAK plays a major role in cellular adhesion and metastasis of various cancers. Upper and lower panels show the results of calorimetric titration of 1. In contrast, cancerous cells can pass these phases of the cell cycle with much lower cytoplasmic free calcium concentrations, indicating an alternative mechanism has developed for fulfilling the intracellular calcium requirement for an increased rate of DNA

synthesis and mitosis of fast replicating cancerous cells.

Calcium signaling and cell cycle: Progression or death — Italian Ministry of Health

The iCa^{2+} is maintained at a low concentration ~ 100 nM compared to the extracellular free Ca^{2+} . These values were then integrated to determine the enthalpy change associated with each injection. Cancer Causes Control 2003; 14 1 :1—12.

Calcium signaling and T

Coamplification in tumors of KRAS2, type 2 inositol 1, 4, 5 triphosphate receptor gene, and a novel human gene, KRAG. In the interphase, the cell is preparing for its division. Moreover, the reader will learn of the striking disabling and bypassing of calcium-dependent control mechanisms during carcinogenesis.

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