

## *Calcium Signalling In Cancer*







### **Calcium Signalling In Cancer**

The ubiquitous second messenger, calcium ( $\text{Ca}^{2+}$ ), is involved with all six of the Hallmarks of Cancer described by Hanahan and Weinberg in their seminal paper published in 2000 (Hanahan & Weinberg, 2000). This article will focus on the role of  $\text{Ca}^{2+}$  signaling in one of these hallmarks: metastasis.

### **Calcium signaling in cancer | Abcam**

A connection between EMT and changes in calcium signalling and/or the expression of specific calcium channels and calcium pumps occurs in other breast cancer cell lines and with other EMT inducers [ , , ]. A link between cancer stem cells and the calcium signal has been reported by Lu et al. .

### **Calcium signalling and breast cancer - ScienceDirect**

Intracellular calcium ions ( $\text{Ca}^{2+}$ ), the most abundant second messenger in human body, have a substantial diversity of roles in fundamental cellular physiology, including gene expression, cell cycle control, cell motility, autophagy and apoptosis<sup>1</sup>.

### **Targeting calcium signaling in cancer therapy - ScienceDirect**

Calcium signalling in the tumour microenvironment is likely to be a complex interplay between several different stromal cell types and cancer cells and represents new opportunities for therapeutic ...

### **The calcium-cancer signalling nexus | Nature Reviews Cancer**

Summary. Calcium signalling occupies a preeminent position in the signal transduction system of the cell by virtue of its participation in a wide range of physiological functions together with the biological events associated with genetic expression, cell proliferation and apoptosis, as well as cell differentiation and morphogenesis.

### **Calcium Signalling in Cancer - CRC Press Book**

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### **Calcium Signalling in Cancer | Taylor & Francis Group**

Calcium signaling, in addition to its numerous physiological roles, is also implicated in several pathological conditions including cancer. An increasing body of evidence suggest critical roles of calcium signaling in the promotion of different aspects of cancer, including cell proliferation, therapy resistance and metastatic-related processes.

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