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calcium the molecular basis of calcium action in biology

The book is in three parts. The first section introduces the reader to the role of calcium in cell biology, providing an appreciation of how this small, simple, non-metabolisable agent can move rapidly and silently through the different cellular compartments, thereby influencing and controlling the fate of the cell.

Calcium: The Molecular Basis of Calcium Action in Biology

The molecular basis responsible for the strength and the stereospecificity of calcium interactions for the two polysaccharides were investigated in a previous paper (Braccini; et al. Carbohydr. Res. 1999, 119). In the present work, a novel molecular modeling procedure has been developed; it involves a pairing procedure that evaluates all the possible associations of the ordered polyuronate chains with calcium ions to form dimers.

Molecular Basis of Ca²⁺-Induced Gelation in Alginates and

The enormous and varied role of calcium in living systems is now widely appreciated by both cell biologists and clinicians. The identification and characterisation of new calcium binding proteins and regulatory pathways is matched by the recognition of the involvement of calcium binding

Calcium: The molecular basis of calcium action in biology

Molecular Basis of the Membrane Interaction of the β_2 Subunit of Voltage-Gated Ca²⁺ Channels Dong-Il Kim,¹ Mooseok Kang,^{2,4} Sangyeol Kim,^{2,4} Juhwan Lee,^{2,3} Yongsoo Park,⁵ Iksoo Chang,^{1,2,*} ... ABSTRACT The auxiliary β subunit plays an important role in the regulation of voltage-gated calcium (Ca^v) channels.

Molecular Basis of the Membrane Interaction of the β_2

ing the calcium contained in the blood and tissue fluids" [20]. After considering and discounting phosphoric acid, sulfuric acid, and carbonic acid, Wells indicated that the search "must fall back on a possible organic Kalkfanger." Wells discussed in considerable detail and then discredited the fatty acids (calcium soaps) as improbable.

On the Molecular Basis for Vascular Calcification

Cell Calcium 42 (2007) 133–144 Molecular basis of the CRAC channel ... identify the molecular components of store-operated Ca^{2+} entry (SOCE), especially the elusive CRAC channel. Pre-vious work had suggested certain TRP channels might be the molecular counterparts of both store-operated Ca^{2+} chan-

Molecular basis of the CRAC channel - Cahalan Lab-Home

molecular basis of altered calcium handling for several engineered Troponin C variants, which provides further insight into tuning its control of myofilament contraction.

Molecular Basis of Calcium-Sensitizing and Desensitizing

Towards the molecular basis for the regulation of mitochondrial dehydrogenases by calcium ions. ... the molecular basis for their regulation by calcium is not. This review uses information derived from calcium binding studies, analysis of conserved calcium binding motifs and comparison of amino acid sequences from calcium sensitive and non ...

Towards the molecular basis for the regulation of

Ion Channels and Receptors (Morgan Sheng, lectures 1 and 2) Importance of ion channels in nervous system and neural signaling – ion channels are the molecular basis of membrane excitability (synaptic transmission, action

Ion Channels and Receptors - MIT

On the basis of the locations of these mutations, we hypothesized that, for the D75Y and E59D mutations, the ... that includes Markov states representing the molecular events of calcium binding to cTnC and conformational changes in cTnC. We derived state transition rates from BD and MD

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