

Structure and Function of Sarcoplasmic Reticulum



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Structure and Function of Sarcoplasmic Reticulum is a compendium of papers from an International Conference on Sarcoplasmic Reticulum held in Japan on November 1-4, 1982. Section I is a review of sarcoplasmic reticulum including the "discovery" of the relaxing factor, the calcium binding of relaxing factor, as well as phosphate transfer and calcium transport coupling. Section II involves the chemistry and structure of the calcium pump protein in sarcoplasmic reticulum. One paper describes the role of protein-lipid interactions in the organization and function of biomembranes. Section III considers the kinetics and thermodynamics of the calcium pumping mechanism, particularly the binding of ligands to calcium ATPase of the sarcoplasmic reticulum, as well as the conformational changes of the sarcoplasmic reticulum Ca-ATPase induced by substrate binding and phosphorylation. A paper gives the results of several experimental techniques in substrates binding assays employing millipore filters and a thermostated filtration apparatus. Section IV describes the calcium ions release process such as rapid and reversible actions, while Section V discusses the regulation of calcium ions uptake and release in the ion channel vesicles. This book can be helpful for researchers in biophysical engineering, pharmacologists, and scientists in the fields of biochemistry and biophysics.

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