



Mg²⁺ and Excitable Membranes (Paperback)

By -

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2011. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The present book is the outcome of a symposium on magnesium and excitable membranes, held in September 1989 on the occasion of the 12th annual meeting of the European Neuroscience Association in Torino. Leading specialists from around the world met in order to discuss the physiological and clinical effects of magnesium on excitable cells. Magnesium ions are known to play a key role in the regulation of a variety of cell functions and, as such, have been implicated in the control of neuronal excitability and cardiovascular diseases. In the last decade, the advent of new electrophysiological techniques has provided important details on the modulatory action of magnesium on ion channels and the receptor proteins of neurotransmitters. Thus, in neuronal and muscle cells, extracellular and intracellular magnesium is shown to block ion passage through open transmembrane magnesium channels in a voltage- and time-dependent manner. The mechanism appears to be common for voltage- and receptor-operated channels, and it is thought to be an important cofactor in the long-term potentiation of synaptic transmission, brain aging, and cardiac...



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