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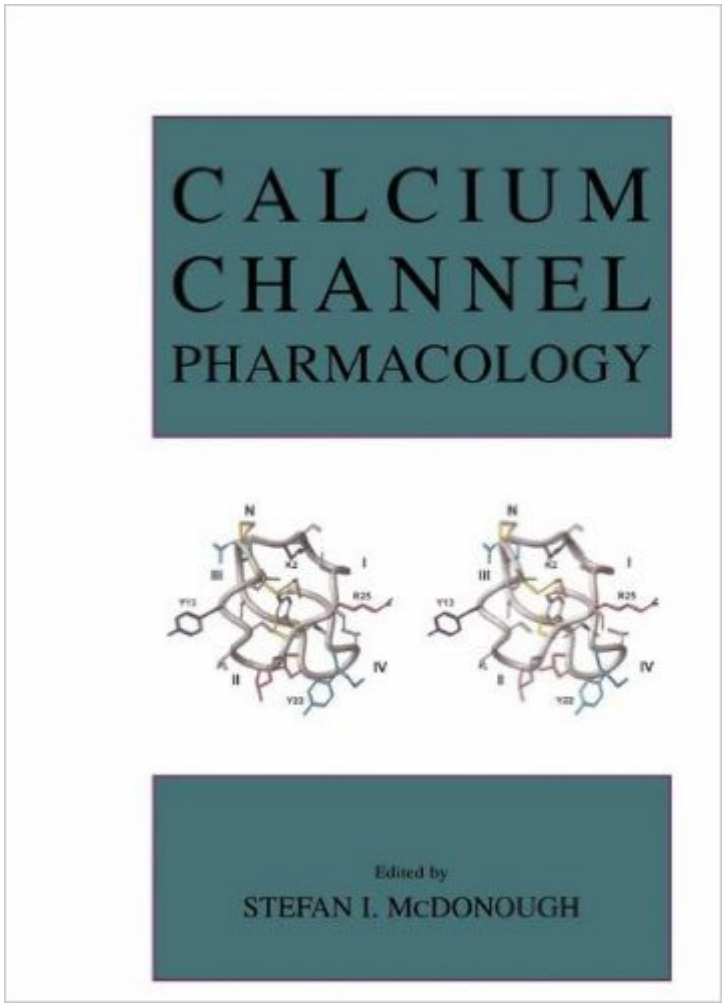
# Calcium Channel Pharmacology

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## Synopsis

Voltage-gated calcium channels are critical regulators of cytoplasmic levels of calcium, the universal signaling ion. As such, calcium channels trigger a wide range of cellular functions, from muscle contraction to neurotransmitter secretion, and are important players in human disease. Prominent in the nervous, cardiovascular, and endocrine systems, members of the calcium channel family are targets for existing antihypertensive and anticonvulsant drugs. In addition, they are emerging targets for drugs to treat an extraordinarily diverse group of disorders, including pain, cerebral ischemia, cardiac arrhythmia, and migraine. This book reviews the compounds that target individual calcium channel subtypes and the cellular and behavioral functions governed by each different channel. It contains information for basic scientists using calcium channel antagonists as experimental tools, for behavioralists studying animal models of human disease, and for pharmaceutical scientists interested in creating the next generation of calcium channel-targeted drugs. Several factors make an entire book on calcium channel pharmacology timely.

## Book Information

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An easily approachable text. Most informative chapters include "Cellular Functions of Calcium Channel Subtypes", "Calcium Channel Blocking Polypeptides", "Peptide Toxin Inhibition of Voltage Gated Calcium Channels" and "Alternative Splicing of Voltage Gated Channels." Anyone interested in better understanding structure/function of calcium channels should find this text helpful

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