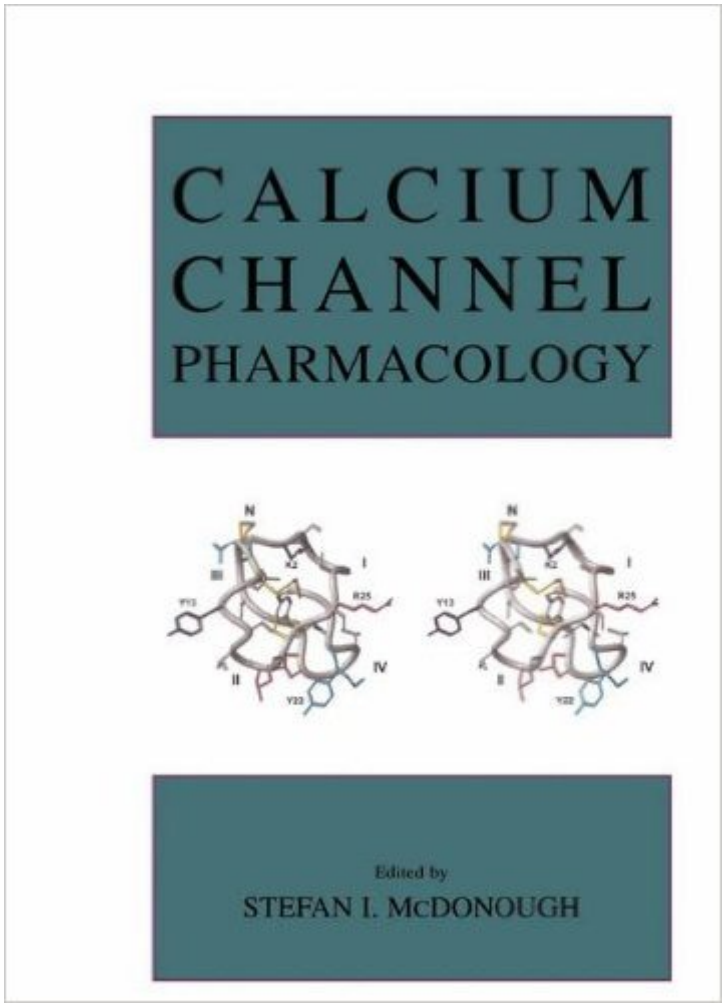
Calcium Channel Pharmacology



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

Hardcover: 418 pages

Publisher: Springer; 2004 edition (November 30, 2003)

Language: English

ISBN-10: 0306478781

ISBN-13: 978-0306478789

Product Dimensions: 6.5 x 1.3 x 10.3 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #4,812,118 in Books (See Top 100 in Books) #35 inÂ Books > Medical Books > Veterinary Medicine > Cardiology #117 inÂ Books > Medical Books > Pharmacology > For Veterinarians #1072 inÂ Books > Science & Math > Biological Sciences > Biophysics

Customer Reviews

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

Calcium Channel Pharmacology Calcium Antagonists: Pharmacology and Clinical Research (Medical Science Symposia Series) YouTube: Ultimate YouTube Guide to Building a Channel, Audience and to Start Making Passive Income Make Money Playing Video Games: How To Build A Successful Gaming Channel On YouTube! Radio Propagation Measurement and Channel Modelling Building Bone Vitality: A Revolutionary Diet Plan to Prevent Bone Loss and Reverse Osteoporosis--Without Dairy Foods, Calcium, Estrogen, or Drugs Better Bones, Better Body : Beyond Estrogen and Calcium Lies My Doctor Told Me: Osteoporosis: How the Latest Medical Research on Bone Drugs and Calcium Could Save Your Bones, Your Heart, and Your Life Super Calcium Counter: The Essential Guide to Preventing Osteoporosis and Building Strong Bones Open Channel Hydraulics Constellation Shaping, Nonlinear Precoding, and Trellis Coding for Voiceband Telephone Channel Modems: with Emphasis on ITU-T Recommendation V.34 (The ... Series in Engineering and Computer Science) Opening to Channel: How to Connect with Your Guide (Sanaya Roman) Spotter Playing Cards: Naval and Airplane Double Deck Set (History Channel) 10 Days That Unexpectedly Changed America (History Channel Presents) Al Jazeera: The Inside Story of the Arab News Channel That is Challenging the West Vitamin K2 and the Calcium Paradox: How a Little-Known Vitamin Could Save Your Life Drugs Looking for Diseases: Innovative Drug Research and the Development of the Beta Blockers and the Calcium Antagonists (Developments in Cardiovascular Medicine) Second Generation of Calcium Anatagonists Calcium Antagonists and Microcirculation: Symposium at the 4th World Congress for Microcirculation, Tokyo, July 1987: Proceedings (Progress in Applied Microcirculation, Vol. 14) Myocardial Protection by Calcium Antagonists