

CALCIUM CHANNEL BLOCKERS

NON-DIHYDROPYRIDINES

DIHYDROPYRIDINES

USED to TREAT



CARDIAC
ARRHYTHMIAS



HYPERTENSION

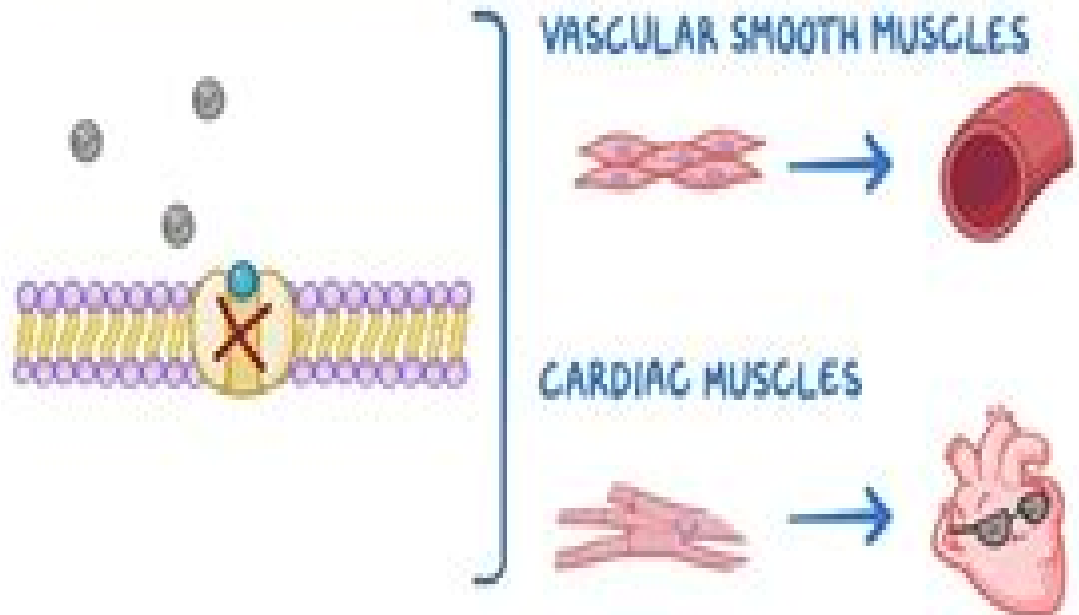


ANGINA
PECTORIS



OTHER
CONDITIONS

MECHANISM



Calcium Channel Pharmacology

Theophile Godfraind, Eric Ertel



Calcium Channel Pharmacology:

Calcium Channel Pharmacology Stefan I. McDonough, 2011-06-28 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

Calcium Channel Blockers Theophile Godfraind, 2004-03-26 The main effect of calcium channel blockers is the blockade of calcium entry into cells through voltage operated calcium channels This volume gives a comprehensive overview of the different classes of CCBs and their various effects It covers historical development pharmacology clinical aspects and perspectives All chapters are written by Prof T Godfraind a world leading expert in the field Calcium Channels L. Donald Partridge, John K. Leach, 1991-07-03 The most comprehensive compendium of information available on calcium channels Calcium channels are a common component of the membranes of a wide range of excitable cells and their presence is crucial to the functioning of these cells This book presents a current review of the biophysics physiology pharmacology and clinical role of calcium channels Chapters discussing the biophysics of calcium channels include topics in ion permeation channel activation channel inactivation and second messenger modulation The chapters on physiology cover excitation contraction coupling excitation secretion coupling sensory transduction regulation of electrical activity and the regulation of cell growth and development Issues discussed in the pharmacology chapters of the book include the effects of permeant and inhibitory inorganic ions blocking and activating effects of organic ions and the regulatory effects of naturally occurring compounds The chapters exploring the clinical aspects of calcium channels examine topics such as the modulation of calcium channels in the treatment of ischemic heart disease cardiomyopathies hypertension cardiac arrhythmias peripheral vascular diseases platelet related disorders neurological disorders and psychiatric disorders Physicians neuroscientists and pharmacologists should consider this book essential to their reference collections **Calcium Channel Blockers** Theophile Godfraind, Eric Ertel, 2004-03-26 *Calcium Channel Blockers* Theophile Godfraind, 2012-11-05 The main effect of calcium channel blockers is the blockade of calcium entry into cells through voltage operated calcium channels This volume gives a comprehensive overview of the different classes of CCBs and their various effects It covers historical development pharmacology clinical

aspects and perspectives All chapters are written by Prof T Godfraind a world leading expert in the field ***Voltage-Gated Calcium Channels*** Gerald Werner Zamponi, 2007-02-26 Voltage gated calcium channels are essential mediators of a range of physiological functions including the communication between nerve cells the regulation of heart beat muscle contraction and secretion of hormones such as insulin Consequently these channels are critical pharmacological targets in the treatment of a variety of disorders such as epilepsy hypertension and pain Voltage gated calcium channels have therefore been subject to intense study by numerous investigators over the past few decades and an immense body of work has accumulated In this book we provide the first comprehensive overview of our current state of knowledge concerning this exciting field of research Leading off with a general review of calcium signaling and techniques to measure calcium channel activity the book delves into a provocative overview of the history of the calcium channel field contributed by one of the key pioneers in the field Dr Richard Tsien This is followed by an in depth review of the biochemical and molecular biological characterization of calcium channel genes by Drs Catterall and Snutch whose research has resulted in major advances in the calcium channel field A number of chapters are dedicated towards various aspects of calcium channel structure and function including channel gating permeation modulation and interactions with members of the exocytotic machinery contributed by both established leaders and rising stars in the field ***Calcium Antagonists*** T. Godfraind, S. Govoni, Rodolfo Paoletti, Paul M. Vanhoutte, 2013-03-14 Although the importance of calcium Ca^{2+} in the maintenance of cardiac contractility was recognized as early as 1880 the critical role of the ion in the contractile process in skeletal cardiac and smooth muscle has only been established within the last three decades As the complexity of the pharmacological actions of the Ca^{2+} channel inhibitors grows there is a continued need to further clarify the inhibitors both chemically and functionally This volume provides an update of the field based on the work presented at the 5th International Symposium on Calcium Antagonists Pharmacology and Clinical Research It reviews the current state of the growing area of molecular biology of Ca^{2+} channels In the cardiovascular area in addition to the well established clinical uses of Ca^{2+} channel inhibitors exciting new work pointing to an application in atherosclerosis is described The book also includes important uses of Ca^{2+} antagonists in novel areas of interest such as the gastrointestinal tract renal protection and multi drug resistance ***Instant Pharmacology*** Kourosh Saeb-Parsy, Ravi G. Assomull, Fakhar Z. Khan, Kasra Saeb-Parsy, Eamonn Kelly, 1999-06-18 Written by students for students Instant Pharmacology represents a novel approach to the study of pharmacology and provides an accessible and exhaustive yet concise account of pharmacology The book first introduces readers to the basic principles of pharmacodynamics and pharmacokinetics which are obviously essential for understanding the action of all drugs and it is subsequently divided into four parts Part One covers the main chemical transmitters which mediate all bodily processes and are the site of much pharmacological intervention A systematic account of the pharmacological treatment of major clinical conditions is presented in Part Two where emphasis is placed primarily on the principles upon which therapy is based rather than overshadowing

these principles with detailed features of individual drugs Part Three comprises a Dictionary of Drugs alphabetically listing all the drugs encountered in Parts One and Two Entries in the dictionary describe in detail the clinical uses mechanisms of action pharmacokinetics and the main adverse effects of a specific agent Finally to allow readers to evaluate their own progress in the subject Part Four is a self assessment section including multiple choice questions with answers covering all the topics in Instant Pharmacology Instant Pharmacology will make the study of pharmacology a more rewarding and enjoyable process and is essential reading for all undergraduate students of pharmacology pharmacy and related courses as well as preclinical medical and dental students

The Calcium Channel: Structure, Function and Implications Martin Morad, Winifred G. Nayler, Stanislav Kazda, Matthias Schramm, 2012-12-06 This is the first book to summarize experimental results from the new rapidly expanding field of research into the calcium channel in cell membrane Calcium is an ubiquitous messenger of various cellular functions Its fundamental role in the regulation of cardiac contractions has long been recognized Drugs counteracting some actions of calcium ions namely calcium antagonists have since become essential to research In the last decade it has been established that calcium ions reach their target intracellular system by passing through specialized calcium channels in the membrane Recently improved experimental techniques combined with the discovery of highly specific Ca channel ligands have dramatically enlarged our knowledge of the molecular structure and function of such channels The contributions by leading world specialists shed new light on both basic science and possible clinical implications for cardiovascular pharmacology endocrinology and neuropharmacology

Voltage-Gated Calcium Channels Gerald Zamponi, 2003 Voltage Gated Calcium Channels is the first comprehensive book in the calcium channel field encompassing over thirty years of progress towards our understanding of calcium channel structure function regulation physiology pharmacology and genetics This book balances contributions from many of the leading authorities in the calcium channel field with fresh perspectives from rising stars in the area taking into account the most recent literature and concepts This is the only all encompassing calcium channel book currently available and is an essential resource for academic researchers at all levels in the areas neuroscience biophysics and cardiovascular sciences as well as to researchers in the drug discovery area

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Calcium Channel Pharmacology Introduction

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