



# Calcium Activated Chloride Channels

**Nicolas Hussy**



## **Calcium Activated Chloride Channels:**

**Calcium-Activated Chloride Channels** Catherine Mary Fuller, 2002-09-19 This volume draws together studies on the diverse group of calcium activated chloride channels CaCCs in one comprehensive format The characteristics of CaCCs identified in a number of different systems are described by experts in the field Channels discussed include those described in cardiac neuronal endothelial and epithelial systems in addition to sections on the CaCC of *Xenopus* Oocytes and the newly identified family of CLCA proteins Key Features Includes description of CaCCs in excitable and non excitable tissues Reviews identification and cloning of the CLCA protein family Contains section on CaCCs in *Xenopus* Oocytes     *Anoctamin*

*Calcium-activated Chloride Channels in the Mouse Brain* Weiping Zhang, 2015     **Ion Channels** James N. C. Kew, Ceri H. Davies, 2010 Ion channels are intimately involved in the everyday physiological functions that enable us to live a full and varied life When disease strikes malfunction of ion channels or their dependent processes is often involved either as the cause or effect of the illness Thus billions of dollars have been and still are being invested in research to understand the physiological and pathophysiological functions of ion channels in an attempt to develop novel therapeutic treatments for a wide range of diseases This book provides a comprehensive overview of ion channel structure and function It comprises two major parts Part one an introductory overview of the ion channel superfamily and the generic aspects of ion channel function This part also reviews the methodologies by which ion channel function can be studied from the perspective of performing detailed biophysical characterisation through to the deployment of high throughput approaches for identifying novel ion channel ligands Part two of the book provides an in depth review of the individual ion channel subfamilies and as such is subdivided into four broad sections Voltage Gated Ion Channels Extracellular Ligand Gated Ion Channels Intracellular Ligand Gated Ion Channels and Polymodal Gated Ion Channels with each chapter therein focused on specific family members These chapters have been written by world leading experts and provide a detailed overview of the structure biophysics localization pharmacology physiology and disease relevance of each particular ion channel subfamily Reviewing both the basic principles of ion channel function and providing a detailed up to date review of the physiological and pharmacological aspects of individual ion channel sub families this book constitutes both an excellent introduction to the field for non specialists as well as a highly valuable reference text for experienced researchers already working in the ion channel area     Physiology and Pathology of Chloride Transporters and Channels in the Nervous System F. Javier Alvarez-Leefmans, Eric Delpire, 2009-08-22 The importance of chloride ions in cell physiology has not been fully recognized until recently in spite of the fact that chloride Cl together with bicarbonate is the most abundant free anion in animal cells and performs or determines fundamental biological functions in all tissues For many years it was thought that Cl was distributed in thermodynamic equilibrium across the plasma membrane of most cells Research carried out during the last couple of decades has led to a dramatic change in this simplistic view We now know that most animal cells neurons included exhibit a non equilibrium distribution of Cl across

their plasma membranes Over the last 10 to 15 years with the growth of molecular biology and the advent of new optical methods an enormous amount of exciting new information has become available on the molecular structure and function of Cl channels and carriers In nerve cells Cl channels and carriers play key functional roles in GABA and glycine mediated synaptic inhibition neuronal growth and development extracellular potassium scavenging sensory transduction neurotransmitter uptake and cell volume control Disruption of Cl homeostasis in neurons underlies pathological conditions such as epilepsy deafness imbalance brain edema and ischemia pain and neurogenic inflammation This book is about how chloride ions are regulated and how they cross the plasma membrane of neurons It spans from molecular structure and function of carriers and channels involved in Cl transport to their role in various diseases The first comprehensive book on the structure molecular biology cell physiology and role in diseases of chloride transporters channels in the nervous system in almost 20 years Chloride is the most abundant free anion in animal cells This book summarizes and integrates for the first time the important research of the past two decades that has shown that Cl channels and carriers play key functional roles in GABA and glycine mediated synaptic inhibition neuronal growth and development extracellular potassium scavenging sensory transduction neurotransmitter uptake and cell volume control The first book that systematically discusses the result of disruption of Cl homeostasis in neurons which underlies pathological conditions such as epilepsy deafness imbalance brain edema and ischemia pain and neurogenic inflammation Spanning topics from molecular structure and function of carriers and channels involved in Cl transport to their role in various diseases Involves all of the leading researchers in the field Includes an extensive introductory section that covers basic thermodynamic and kinetics aspects of Cl transport as well as current methods for studying Cl regulation spanning from fluorescent dyes in single cells to knock out models to make the book available for a growing population of graduate students and postdocs entering the field

**Role of Calcium-activated Chloride Channels in the Conducting Airways of Rodents** Anne Hahn, 2017 *Handbook of Ion Channels* Jie Zheng, Matthew C. Trudeau, 2015-02-25 The New Benchmark for Understanding the Latest Developments of Ion Channels Ion channels control the electrical properties of neurons and cardiac cells mediate the detection and response to sensory stimuli and regulate the response to physical stimuli They can often interact with the cellular environment due to their location at the surface of cells

Processing Mechanism of Putative Mouse Calcium Activated Chloride Channel 4 Chunlei Huan, 2007

**Understanding the Molecular Pharmacology of Vascular Calcium-activated Chloride Channels** Ria Dinsdale, 2021

**Ion Channels in Biophysics and Physiology** Lei Zhou, 2022-02-09 This book gathers relatively recent and significant topics in the field of ion channel research Ion channels form the molecular basis for membrane excitability in cells present in the cardiovascular and nervous systems In many non excitable cells ion channels contribute to diverse physiological functions including the secretion of signaling compounds like hormones and insulin cell volume regulation intracellular signaling especially Ca<sup>2+</sup> signaling etc Many human diseases have been attributed to abnormal channel functions

and defective membrane expression of channel proteins On the other hand ion channels are excellent models for studying protein biophysics especially the allosteric regulation of protein function by miscellaneous stimuli Therefore research on ion channels carries significant meaning for the understanding of basic protein biophysics and diverse physiological functions Such vital information also assists in developing novel and effective treatments for related human diseases This book provides graduates and scientists in both basic and clinical levels a comprehensive understanding of cutting edge advances and a useful and stimulating platform for tackling their own questions about ion channels

*Signal Transduction and Smooth Muscle* Mohamed Trebak, Scott Earley, 2018-08-06 All hollow organs such as blood vessels the gastrointestinal tract airways male and female reproductive systems and the urinary bladder are primarily composed of smooth muscle Such organs regulate flow propulsion and mixing of luminal contents and storage by the contraction and relaxation of smooth muscle cells Smooth muscle cells respond to numerous inputs including pressure shear stress intrinsic and extrinsic innervation hormones and other circulating molecules as well as autocrine and paracrine factors This book is a review of smooth muscle cell regulation in the cardiovascular reproductive GI and other organ systems with emphasis on calcium and receptor signaling Key selling features Focuses on smooth muscles of different types Describes ion channel signaling mechanisms Reviews calcium and receptor signaling Includes novel cutting edge methodologies Summarizes studies of mice with genetically encoding sensors in smooth muscle Chapter 9 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution CC BY 4.0 license

The Role of Calcium-activated Chloride Channel ANO1 in the Vasculature Dmitry Kamaev, **Human CLCA2 Modulates the Conductance of Calcium-activated Chloride Channels by Regulation of Intracellular Calcium** Aarushi Sharma, 2016 Chloride channels play an essential role in the physiology of the respiratory system the gastrointestinal tract and secretory glands Their dysregulation underlies debilitating pathologies such as cystic fibrosis asthma and certain cancers The CLCA Chloride Channel Accessory gene family is thought to determine severity of these diseases by modulating an unidentified Calcium activated Chloride Channel CaCC Recent evidence indicates Ano1 to be the mediator of strong quintessential calcium activated chloride current in several cell types Ano1 is highly expressed in airway epithelium and downregulated in cystic fibrosis patients Human CLCA2 is also expressed in epithelium of airways and mammary glands and there it promotes calcium activated chloride current Hence we hypothesized that CLCA2 modulates the conductance of Ano1 We tested this by introducing Ano1 and CLCA2 together or separately into HEK293 cells which express endogenous Ano1 at a low level Using whole cell voltage clamp we found that CLCA2 enhanced the conductance of the endogenous CaCC This current was inhibited by a specific inhibitor of Ano1 tannic acid CLCA2 also increased both the amplitude and the onset rate of the Ano1 mediated current To determine the mechanism by which CLCA2 amplifies Ano1 mediated current we used co immunoprecipitation with or without a protein cross linking agent and to test whether the interaction if any was stable or

transient respectively Neither any interaction nor any change in Ano1 multimerization was found We next tested whether CLCA2 enhanced Ano1 conductance by increasing its stability or surface localization Surface labelling the cells expressing Ano1 alone or both proteins with biotin no difference in Ano1 level or surface expression was detected Ano1 has recently been shown to be activated by intracellular calcium released from endoplasmic reticulum ER stores and by subsequent store operated calcium entry SOCE Therefore we investigated whether CLCA2 could increase intracellular calcium levels With Fluo 4 dye calcium imaging we found that CLCA2 expression enhanced both ER calcium stores and SOCE upon exhaustion of intracellular stores and the SOCE response could be abolished by a specific inhibitor of SOCE BTP 2 This inhibitor also abolished CLCA2 induced chloride current establishing that CLCA2 enhances CaCC via SOCE Moreover knockdown of CLCA2 in MCF10A cells that naturally express both proteins reduced both ER calcium stores and SOCE Mutations that abolished the metalloprotease activity of CLCA2 or deleted the cytoplasmic tail had little effect on its enhancement of chloride current or intracellular calcium suggesting that the uncleaved ectodomain was responsible for both effects of CLCA2 Since the ectodomain is the most conserved region of the protein we found that another member of the CLCA family CLCA1 was also effective in enhancing intracellular calcium storage and SOCE Co immunoprecipitation studies further revealed that CLCA2 interacts in a ternary complex with mediators of SOCE STIM1 and ORAI1 These results explain the CaCC enhancing effects of CLCA family members and suggest a broader role in other calcium dependent processes Understanding the modulatory relationship between these molecules may lead to better therapies for airway diseases and Ano1 dependent cancers Furthermore the discovery that CLCA2 regulates intracellular calcium levels may explain its effects on cellular differentiation stress response and cell death

**Developmental Properties of Calcium-activated Chloride Currents in Xenopus Spinal Neurons in Culture** Nicolas Hussy,1990 **American Journal of Respiratory and Critical Care Medicine** ,2006 The Role of Calcium-activated Chloride Channel ANOE0071 in the Vasculature Dmitry Kamaev,2017

**Functional Characteristics of Ionic Currents and Channels in Cone Photoreceptors and C2 Myotubes** Andres Villu Maricq,1987 A Novel Family of Calcium-activated Chloride Channels Homologous to Lung Endothelial Cell Adhesion Molecule-1 Achim Dieter Gruber,1999 **The Journal of Neuroscience** ,2009 *Genome Research* ,2003 **Canadian Journal of Physiology and Pharmacology** ,2005

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## **Table of Contents Calcium Activated Chloride Channels**

1. Understanding the eBook Calcium Activated Chloride Channels
  - The Rise of Digital Reading Calcium Activated Chloride Channels
  - Advantages of eBooks Over Traditional Books
2. Identifying Calcium Activated Chloride Channels
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Calcium Activated Chloride Channels
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calcium Activated Chloride Channels
  - Personalized Recommendations
  - Calcium Activated Chloride Channels User Reviews and Ratings
  - Calcium Activated Chloride Channels and Bestseller Lists
5. Accessing Calcium Activated Chloride Channels Free and Paid eBooks

- Calcium Activated Chloride Channels Public Domain eBooks
- Calcium Activated Chloride Channels eBook Subscription Services
- Calcium Activated Chloride Channels Budget-Friendly Options
- 6. Navigating Calcium Activated Chloride Channels eBook Formats
  - ePub, PDF, MOBI, and More
  - Calcium Activated Chloride Channels Compatibility with Devices
  - Calcium Activated Chloride Channels Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Calcium Activated Chloride Channels
  - Highlighting and Note-Taking Calcium Activated Chloride Channels
  - Interactive Elements Calcium Activated Chloride Channels
- 8. Staying Engaged with Calcium Activated Chloride Channels
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Calcium Activated Chloride Channels
- 9. Balancing eBooks and Physical Books Calcium Activated Chloride Channels
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Calcium Activated Chloride Channels
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Calcium Activated Chloride Channels
  - Setting Reading Goals Calcium Activated Chloride Channels
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calcium Activated Chloride Channels
  - Fact-Checking eBook Content of Calcium Activated Chloride Channels
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development



- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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