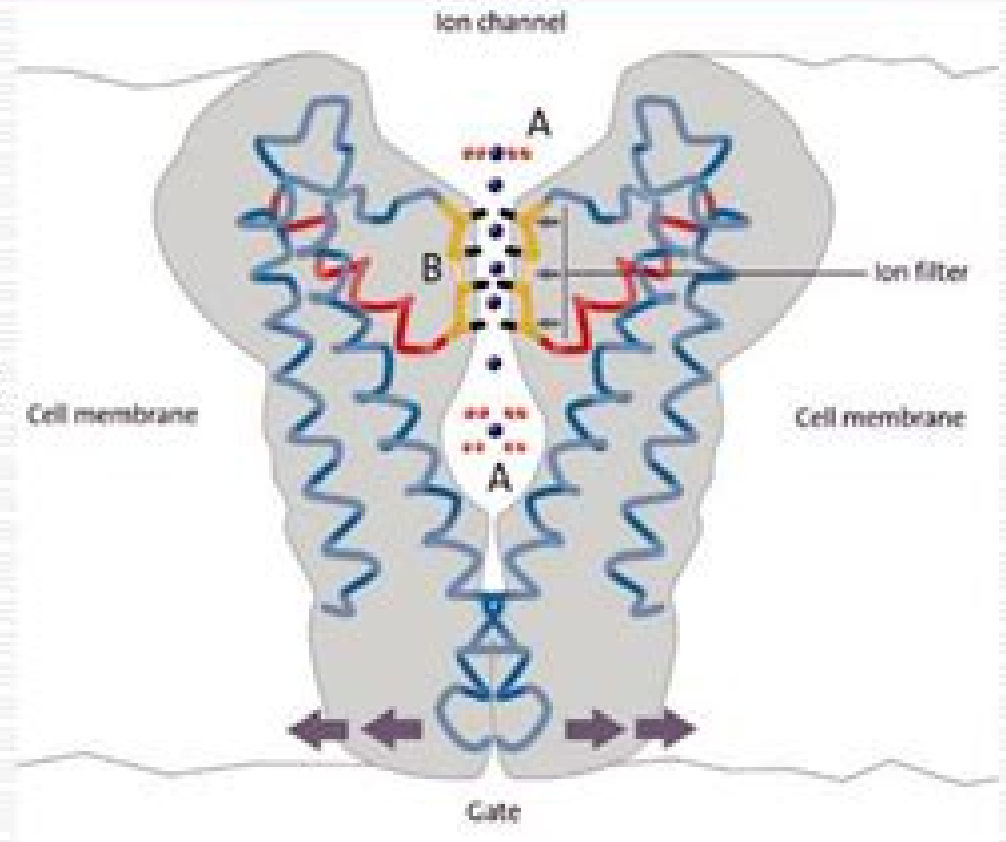


# Ion Pumps

- **Ion pumps** (also called electrogenic pumps)
- = are special proteins which **actively transport** ions



# Electrogenic Ion Pumps

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## **Electrogenic Ion Pumps:**

Electrogenic Ion Pumps Peter Läuger, 1991 Electrogenic ion pumps convert chemical reduction oxidation or light energy into ion concentration differences across all living cells They are the engines that run cells In this text Dr Langer develops the principles of physical chemistry required to understand the functions of these macromolecules **Electrogenic Ion Pumps** Clifford L. Slayman, 1982 **The Electrogenic Ion Pump in Chara Corallina**, David Warren Keifer, 1978 Ion Pumps, Part A J.P. Andersen, 1997-11-19 Both eukaryotic and prokaryotic cells depend strongly on the function of ion pumps present in their membranes The term ion pump synonymous with active ion transport system refers to a membrane associated protein that translocates ions uphill against an electrochemical potential gradient Primary ion pumps utilize energy derived from chemical reactions or from the absorption of light while secondary ion pumps derive the energy for uphill movement of one ionic species from the downhill movement of another species In the present volume various aspects of ion pump structure mechanism and regulation are treated using mostly the ion transporting ATPases as examples One chapter has been devoted to a secondary ion pump the Na Ca<sup>2+</sup> exchanger not only because of the vital role played by this transport system in regulation of cardiac contractility but also because it exemplifies the interesting mechanistic and structural similarities between primary and secondary pumps Pumps, Channels and Transporters Ronald J. Clarke, Mohammed A. A. Khalid, 2015-09-16 Describes experimental methods for investigating the function of pumps channels and transporters Covers new emerging analytical methods used to study ion transport membrane proteins such as single molecule spectroscopy Details a wide range of electrophysiological techniques and spectroscopic methods used to analyze the function of ion channels ion pumps and transporters Covers state of the art analytical methods to study ion pumps channels and transporters and where analytical chemistry can make further contributions *Plant Electrophysiology* Alexander G. Volkov, 2007-04-19 As a pioneering work on plant electrophysiology this exciting reference compiles new findings from the work of internationally renowned experts in the fields of electrophysiology bio electrochemistry biophysics signal transduction phloem transport tropisms ion channels plant electrochemistry and membrane transport The book starts with a historical introduction to plant electrophysiology followed by two distinct parts The first one deals with methods in plant electrophysiology including amongst others measuring membrane potentials and ion fluxes patch clamp technique and electrochemical sensors The second part covers experimental results and their theoretical interpretation Bioelectrochemistry of Biomembranes and Biomimetic Membranes Rolando Guidelli, 2016-09-30 Invaluable to biochemists biophysicists and pharmacological scientists this book provides insights into the essential principles required to understand why and how electrochemical and electrophysiological tools are fundamental in elucidating the mode of ion transport across biomembranes Describes the essential electrochemical basics required to understand why and how electrochemical and electrophysiological tools are fundamental in elucidating the mode of ion transport across

biomembranes Requires only basic physical chemistry and mathematics to be understood without intermediate stumbling blocks that would discourage the reader from proceeding further Develops contents in a step by step approach that encourages students and researchers to read from beginning to end Channels, Carriers, and Pumps Wilfred D. Stein, Thomas Litman, 2014-12-09 An introduction to the principles of membrane transport How molecules and ions move across the cell membrane by simple diffusion and by making use of specialized membrane components channels carriers and pumps The text emphasizes the quantitative aspects of such movement and its interpretation in terms of transport kinetics Molecular studies of channels carriers and pumps are described in detail as well as structural principles and the fundamental similarities between the various transporters and their evolutionary interrelationships The regulation of transporters and their role in health and disease are also considered Provides an introduction to the properties of transport proteins channels carriers and pumps Presents up to date information on the structure of transport proteins and on their function and regulation Includes introductions to transport kinetics and to the cloning of genes that code transport proteins Furnishes a link between the experimental basis of the subject and theoretical model building **Mechanisms of Resistance to Plant Diseases** A.J. Slusarenko, R.S. Fraser, L.C. van Loon, 2012-12-06 Plant pathogen interactions is a rapidly developing area among the plant sciences Molecular genetics has provided the tools to analyse and manipulate mechanisms of pathogenicity and resistance responses and has facilitated their study from the population to the molecular level The book brings together the views of experts in the field and provides an overview of the genetic basis of interactions between fungi bacteria viruses and their host plants the triggering of plant defences and the complex array of plant responses to stop pathogen invasion as well as possible applications for improved plant protection The chapters are organised and written to make an advanced textbook rather than simply a collection of reviews or something resembling conference proceedings Thus authors have largely concentrated on a didactic approach and the book should remain useable for several years in spite of the rapid progress in research The text is aimed at advanced students in the field of plant pathology as well as researchers requiring an integrated picture of plant resistance to pathogens Molecular Biology of Membrane Transport Disorders Stanley G. Schultz, 1996-06-30 The scope and depth of this book are excellent with in depth reviews that will be of benefit to both novice and expert alike An excellent text worthy of a place on any self respecting membranologists book shelf and I recommend it highly Trends in Biochemical Sciences Molecular Biology of Membrane Transport Disorders comprises the first compilation of papers on the important membrane transporters and ion channels with an emphasis on membrane transport disorders Internationally recognized leaders in the field provide a thorough understanding of the pathogenesis of clinical conditions that involve derangements in membrane transport processes at the molecular level This work is a valuable resource for medical and graduate students and researchers in the biomedical sciences as well as academic physicians in cardiology nephrology neurology and gastroenterology **Fluorescence Applications in Biotechnology and Life Sciences** Ewa M.

Goldys, 2009-08-24 A self contained treatment of the latest fluorescence applications in biotechnology and the life sciences This book focuses specifically on the present applications of fluorescence in molecular and cellular dynamics biological medical imaging proteomics genomics and flow cytometry It raises awareness of the latest scientific approaches and technologies that may help resolve problems relevant for the industry and the community in areas such as public health food safety and environmental monitoring Following an introductory chapter on the basics of fluorescence the book covers labeling of cells with fluorescent dyes genetically encoded fluorescent proteins nanoparticle fluorescence probes quantitative analysis of fluorescent images spectral imaging and unmixing correlation of light with electron microscopy fluorescence resonance energy transfer and applications monitoring molecular dynamics in live cells using fluorescence photo bleaching time resolved fluorescence in microscopy fluorescence correlation spectroscopy flow cytometry fluorescence in diagnostic imaging fluorescence in clinical diagnoses immunochemical detection of analytes by using fluorescence membrane organization and probing the kinetics of ion pumps via voltage sensitive fluorescent dyes With its multidisciplinary approach and excellent balance of research and diagnostic topics this book is an essential resource for postgraduate students and a broad range of scientists and researchers in biology physics chemistry biotechnology bioengineering and medicine

**Monovalent Cations in Biological Systems** Charles A. Pasternak, 2024-12-06 This unique volume provides an integrated overview of the subject of monovalent cations specifically aimed at students and researchers It is divided into two parts the first deals with the processes by which monovalent cations are transported across biological membranes the second deals with the processes that are affected by changes in intracellular cations Each chapter describes in simple biochemical terms the interaction between one or more monovalent cations and a particular biological system of importance to current understanding of body function in health and disease This useful publication is invaluable to students and researchers in biochemistry physiology neurology pharmacology anesthesiology cardio pulmonology hematology laboratory medicine endocrinology gastroenterology internal medicine psychiatry urology biomedical physics and medical nutrition

*Neuromodulation* Irwin B. Levitan, 1987 Traditional neuroscience texts have stressed the output of neurons how they turn postsynaptic targets on or off cause muscles to twitch or convert photons into electrical pulses Neuromodulation alters that emphasis to examine how the responses of nerve cells can be modified Because a neuron s performance can be modulated brains of all animals exhibit the amazing capacity to learn Presenting the best studied examples Kaczmarek and Levitan provide the first detailed review of those potassium and calcium channels whose functions are modulated through receptor mediated second messenger mechanisms and that are thought to underlie many important kinds of neuronal plasticity This book which covers up to date biophysical work in both vertebrate and invertebrate neurons will be greatly appreciated by the readership the authors wish to reach neurophysiological biochemists and biochemical neurophysiologists interested in understanding how behavior results from the action of nerve cells James H Schwartz M D Ph D Columbia University College

of Physicians and Surgeons      *Current Topics in Bioenergetics* D. Rao Sanadi, 2014-06-28 *Current Topics in Bioenergetics* Volume 4 provides information pertinent to the molecular basis for energy transduction in membranous systems This book presents the developments of relevant techniques in the field of bioenergetics Organized into eight chapters this volume begins with an overview of nonequilibrium and fluorescent probes that deal with relatively unexplored areas This text then discusses the problem of pathways and mechanisms of energy transformations in the cell Other chapters consider the transport of ions across the plasma membrane of nearly all living cells which is a necessary condition for the maintenance of the vital life processes This book discusses as well that bacterial synthesis offers basic and valuable information of general significance and remarkably stimulating challenges with direct bearing on different aspects of the problem of the basic mechanisms involved in biological electron transport coupled energy conversion The final chapter deals with the general models for the transport of sodium and potassium This book is a valuable resource for biologists and biochemists      *Plant Biology and Biotechnology* Bir Bahadur, Manchikatla Venkat Rajam, Leela Sahijram, K.V. Krishnamurthy, 2015-07-02 This volume offers a much needed compilation of essential reviews on diverse aspects of plant biology written by eminent botanists These reviews effectively cover a wide range of aspects of plant biology that have contemporary relevance At the same time they integrate classical morphology with molecular biology physiology with pattern formation growth with genomics development with morphogenesis and classical crop improvement techniques with modern breeding methodologies Classical botany has been transformed into cutting edge plant biology thus providing the theoretical basis for plant biotechnology It goes without saying that biotechnology has emerged as a powerful discipline of Biology in the last three decades Biotechnological tools techniques and information used in combination with appropriate planning and execution have already contributed significantly to economic growth and development It is estimated that in the next decade or two products and processes made possible by biotechnology will account for over 60% of worldwide commerce and output There is therefore a need to arrive at a general understanding and common approach to issues related to the nature possession conservation and use of biodiversity as it provides the raw material for biotechnology More than 90% of the total requirements for the biotechnology industry are contributed by plants and microbes in terms of goods and services There are however substantial plant and microbial resources that are waiting for biotechnological exploitation in the near future through effective bioprospection In order to exploit plants and microbes for their useful products and processes we need to first understand their basic structure organization growth and development cellular process and overall biology We also need to identify and develop strategies to improve the productivity of plants In view of the above in this two volume book on plant biology and biotechnology the first volume is devoted to various aspects of plant biology and crop improvement It includes 33 chapters contributed by 50 researchers each of which is an expert in his her own field of research The book begins with an introductory chapter that gives a lucid account on the past present and future of plant biology thereby providing a perfect

historical foundation for the chapters that follow Four chapters are devoted to details on the structural and developmental aspects of the structures of plants and their principal organs These chapters provide the molecular biological basis for the regulation of morphogenesis of the form of plants and their organs involving control at the cellular and tissue levels Details on biodiversity the basic raw material for biotechnology are discussed in a separate chapter in which emphasis is placed on the genetic species and ecosystem diversities and their conservation Since fungi and other microbes form an important component of the overall biodiversity special attention is paid to the treatment of fungi and other microbes in this volume Four chapters respectively deal with an overview of fungi arbuscularmycorrhizae and their relation to the sustenance of plant wealth diversity and practical applications of mushrooms and lichens associated with a photobiont Microbial endosymbionts associated with plants and phosphate solubilizing microbes in the rhizosphere of plants are exhaustively treated in two separate chapters The reproductive strategies of bryophytes and an overview on Cycads form the subject matter of another two chapters thus fulfilling the need to deal with the non flowering Embryophyte group of plants Angiosperms the most important group of plants from a biotechnological perspective are examined exhaustively in this volume The chapters on angiosperms provide an overview and cover the genetic basis of flowers development pre and post fertilization reproductive growth and development seed biology and technology plant secondary metabolism photosynthesis and plant volatile chemicals A special effort has been made to include important topics on crop improvement in this volume The importance of pollination services apomixes male sterility induced mutations polyploidy and climate changes is discussed each in a separate chapter Microalgalnutra pharmaceuticals vegetable oil based nutraceuticals and the importance of alien crop resources and underutilized crops for food and nutritional security form the topics of three other chapters in this volume There is also a special chapter on the applications of remote sensing in the plant sciences which also provides information on biodiversity distribution The editors of this volume believe the wide range of basic topics on plant biology that have great relevance in biotechnology covered will be of great interest to students researchers and teachers of botany and plant biotechnology alike

**CSIR NET Life Science - Unit 6 - Plant Physiology** Mr. Rohit Manglik,2024-07-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Plant Physiology EduGorilla Prep Experts,2024-09-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Electrophysiology* Saeed Oraii,2012-02-03 The outstanding evolution of recording techniques paved the way for better understanding of electrophysiological phenomena within the human organs including the cardiovascular ophthalmologic and neural systems In

the field of cardiac electrophysiology the development of more and more sophisticated recording and mapping techniques made it possible to elucidate the mechanism of various cardiac arrhythmias This has even led to the evolution of techniques to ablate and cure most complex cardiac arrhythmias Nevertheless there is still a long way ahead and this book can be considered a valuable addition to the current knowledge in subjects related to bioelectricity from plants to the human heart

Dutch Elm Disease Research Mariam B. Sticklen, James L. Sherald, 2012-12-06 Dutch elm disease is a significant problem in forestry and horticulture which has proven remarkably difficult to ameliorate Since the introduction of the Dutch elm disease pathogen to North America the disease has devastated the elm population of this continent and has been the subject of intensive research This book summarizes the range of approaches that have been taken to address the disease and emphasizes the significant progress over the past decade in applying methods from cell and molecular biology Dutch Elm Disease Cellular and Molecular Approaches will be of interest to scientists in plant pathology horticulture forestry biological control and plant breeding

Reviews of Physiology, Biochemistry and Pharmacology, 2007-05-02 H Wegele L M ller and J Buchner Hsp70 and Hsp90 A Relay Team for Protein Folding R Sch lein The Early Stages of the Intracellular Transport of Membrane Proteins Clinical and Pharmacological Implications L Schild The Epithelial Sodium Channel From Molecule to Disease



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