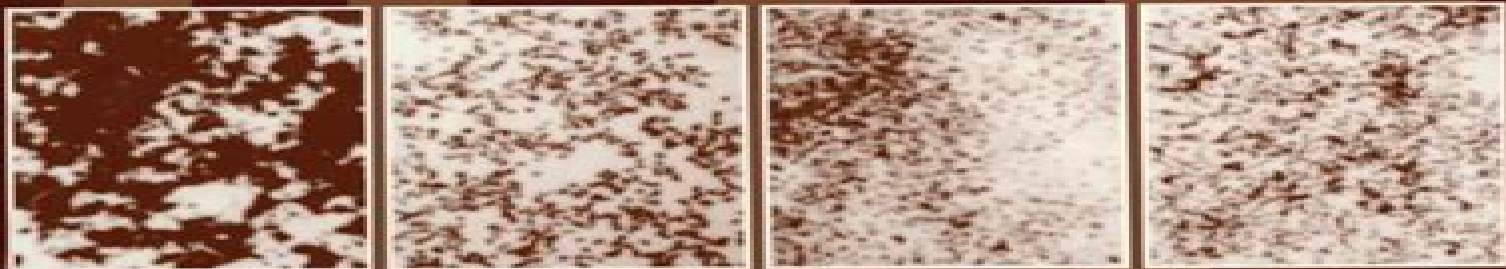


# *Ecto-ATPases*

*Recent Progress on  
Structure and Function*



*Edited by Liselotte Plesner,  
Terence L. Kirley, and Aileen F. Knowles*

# Ecto Atpases Recent Progress On Structure And Function

**Maryse Picher, Richard C. Boucher**



## **Ecto ATPases Recent Progress On Structure And Function:**

**Ecto-ATPases** Liselotte Plesner, Terence L. Kirley, Aileen F. Knowles, 2012-12-06 Proceedings of the First International Workshop held in Mar de Plata Argentina August 26 30 1996      **Purinergic and Pyrimidinergic Signalling** Maria P. Abracchio, Michael Williams, 2001-02-12 Physiological pharmacological and molecular biological data generated over the past three decades have demonstrated the existence of two major families of extracellular receptors the P1 a family of four G protein coupled receptors and the P2 a family of at least 12 receptors responsive to purine ATP ADP and pyrimidine UTP nucleotides through which adenosine and ATP can function as extracellular messengers The present two part volume represents an integrated compendium of invited chapters by leading researchers in the area focusing on advances in the understanding of purinergic and pyrimidinergic signaling systems their role s in tissue function and pathophysiology and advances in developing potential new medications based on the modulation of P1 and P2 receptor signaling processes The volumes will thus provide the reader with a topical comprehensive and integrated overview of this important area

Regulation of Ca<sup>2+</sup>-ATPases, V-ATPases and F-ATPases Sajal Chakraborti, Naranjan S Dhalla, 2015-12-10 The biological membranes of cellular organization enfold an important group of membrane proteins called the ATPases which are not only versatile in maintaining chemical gradient and electrical potential across the membrane but also bring metabolites necessary for cell metabolism and drive out toxins waste products and solutes that otherwise can curb cell functions ATPases are distributed virtually in all live forms starting from unicellular to multicellular and also in viruses There are different types of ATPases which differ in function and structure and in the type of ions they transport The three main types of the ion pump ATPase family are i P type ATPases that transport different ions across membranes and Ca<sup>2+</sup> ATPases belongs to this category ii F type ATPase in mitochondria chloroplasts and bacterial plasma membranes produce ATP using the proton gradient and iii V type ATPase catalyzes ATP hydrolysis to transport solutes and maintains acidic pH in organelles like lysosomes Genetic defects in either of the ATPases cause several diseases and a number of researches have demonstrated the involvement of the members of ATPases in the cell pathology and diseases thereby penetrating exciting new areas of our understanding In this book the authors summarize recent knowledge about the molecular mechanisms associated with Ca<sup>2+</sup> ATPase V ATPase and F ATPase in intracellular and extracellular Ca<sup>2+</sup> transport mitochondrial ATP synthase vesicular H transport and lysosomal pH regulation This book thereby bridges the gap between fundamental research and biomedical and pharmaceutical applications The book provides an informative resource to improve ATPase research and modern therapeutic approaches toward different life threatening diseases that are associated with dysregulation of the ATPases      **Molecular and Cellular Mechanisms of Neuronal Plasticity** Yigal H. Ehrlich, 2012-12-06 Numerous studies have proven the biological basis of memory formation and have begun to identify the biochemical traces and cellular circuits that are formed by experience and which participate in the storage of information in the brain its retention for long durations and its

retrieval upon demand Cells in the nervous system have the capability of undergoing extremely long lasting alterations in response to hormonal pharmacological and environmental stimulations The mechanisms underlying this neuronal plasticity are activated by experiential inputs and operate in the process of learning and the formation of memories in the brain This volume presents research areas which have not been highlighted in the past In addition to studies on the involvement of functional proteins in neuronal adaptation this volume presents recent developments on the critical roles of bioactive lipids and nucleotides in these processes In addition to the widely studied role of second messengers a review of studies on extracellular phosphorylation systems operating on the surface of brain neurons is presented The first section of the volume presents studies of basic mechanisms operating in a wide range of adaptive processes The second section presents recent advances in investigations that have demonstrated the clinical implications of this research These include state of the art use of transgenic models in studies of molecular and cellular mechanisms implicated in familial Alzheimer s disease and Amyotrophic Lateral Sclerosis studies of specific proteins implicated in Alzheimer s disease including an adapter that binds to the beta amyloid precursor protein beta APP and the microtubular protein Tau and its membrane bound counterpart The advantages of using cell culture models for elucidating the causes of neuronal degeneration and for identifying mechanisms of neuroprotection are also presented among the chapters in the section on clinical implications

**Nucleotides and their Receptors in the Nervous System** P. Illes,H. Zimmermann,1999-08-31 The study of purinergic mechanisms has for long been focused on the actions of the nucleoside adenosine whereby the contribution of nucleotides to the signaling systems has been underestimated Based on the proceedings of a IUPHAR Satellite Conference held in Leipzig Germany this book offers a comprehensive update and overview of nucleotide release the structure and function of nucleotide receptors nucleotide metabolizing ecto enzymes as well as the physiological functions of nucleotides in the nervous system The physiology and molecular biology of receptors for ATP and other nucleotides are examined as are the physiology and molecular biology of enzymes that hydrolyze extracellular nucleotides At present a pharmacology of the nucleotide signaling system is being developed Of particular interest is the production of receptor subtype specific antagonists and of drugs that selectively affect the extracellular lifetime of the nucleotide An excellent source of reference for institutes of pharmacology biochemistry neurology zoology and physiology and for the pharmaceutical industry

**Biochemistry** John T. Tansey,2019-04-02 Biochemistry An Integrative Approach is addressed to premed biochemistry and life science majors taking a one semester biochemistry course This version includes the first 12 chapters and should only be used for one semester biochemistry courses Biochemistry addresses the diverse needs of premed biochemistry and life science majors by presenting relevant material while still preserving a chemical perspective Presented within the next generation of WileyPLUS Biochemistry emphasizes worked problems through video walkthroughs interactive elements and expanded end of chapter problems with a wide range of subject matter and difficulty The worked problems in the course are both qualitative and quantitative and

model for students the biochemical reasoning they need to practice Students will often be asked to analyze data and make critical assessments of experiments **Comparative Biochemistry and Physiology** ,2002 Journal of Experimental Biology ,2003 *The Journal of Experimental Biology* ,1999 *Recent Advances in  $\gamma\delta$  T Cell Biology: New Ligands, New Functions, and New Translational Perspectives* Dieter Kabelitz,Julie Dechanet-Merville,2016-02-16 Gamma delta T cells are a small subset of T lymphocytes in the peripheral circulation but constitute a major T cell population at other anatomical localizations such as the epithelial tissues In contrast to conventional T cells the available number of germline genes coding for T cell receptor TCR variable elements of T cells is very small Moreover there is a preferential localization of T cells expressing given Vgamma and Vdelta genes in certain tissues In humans T cells expressing the Vg9Vd2 encoded TCR account for anywhere between 50 and 95% of peripheral blood T cells whereas cells expressing non Vd2 genes dominate in mucosal tissues In mice there is an ordered appearance of T cell waves during embryonic development resulting in preferential localization of T cells expressing distinct VgammaVdelta genes in the skin the reproductive organs or gut epithelia The major function of T cells resides in local immunosurveillance and immune defense against infection and malignancy This is supported by the identification of ligands that are selectively recognized by the TCR As an example human Vgamma9Vdelta2 T cells recognize phosphorylated metabolites phosphoantigens that are secreted by many pathogens but can also be overproduced by tumor cells providing a basis for a role of these T cells in both anti infective and anti tumor immunity Similarly the recognition of endothelial protein C receptor by human non Vdelta2 T cells has recently been identified to provide a link for the role for such T cells in immunity against epithelial tumor cells and cytomegalovirus infected endothelial cells In addition to classical functions such as cytokine production and cytotoxicity recent studies suggest that subsets of T cells can exert additional functions such as regulatory activity and quite surprisingly professional antigen presenting capacity It is currently not well known how this tremendous extent of functional plasticity is regulated and what is the extent of TCR ligand diversity Due to their non MHC restricted recognition of unusual stress associated ligands T cells have raised great interest as to their potential translational application in cell based immunotherapy Topics of this Research Focus include Molecular insights into the activation and differentiation requirements of T cells role of pyrophosphates and butyrophilin molecules for the activation of human T cells role of T cells in tumor immunity and in other infectious and non infectious diseases and many others We are most grateful to all colleagues who agreed to write a manuscript Thanks to their contributions this E book presents an up to date overview on many facets of the still exciting T cells Dieter Kabelitz Julie D chanet Merville Directory of Published Proceedings ,1999 *Recent Advances in Nutrigenetics and Nutrigenomics* C Bouchard,J. M. Ordovas,2012-06-19 *Recent Advances in Nutrigenetics and Nutrigenomics* *Physiological Research* ,2006 Biomedical Index to PHS-supported Research ,1991 **Novel Mechanisms Involved in Urinary Bladder Control: Advances in Neural, Humoral and Local Factors Underlying**

**Function and Disease, volume III** Monica Akemi Sato,Patrik Aronsson,Russ Chess-Williams,2025-04-10 This Research Topic is part of the Novel Mechanisms Involved in Urinary Bladder Control Advances in Neural Humoral and Local Factors Underlying Function and Disease series Novel Mechanisms Involved in Urinary Bladder Control Advances in Neural Humoral and Local Factors Underlying Function and Disease Novel Mechanisms Involved in Urinary Bladder Control Advances in Neural Humoral and Local Factors Underlying Function and Disease Volume II Urinary bladder diseases and micturition dysfunctions affect millions of people worldwide Aside from physical and functional problems these conditions cause social and mental discomfort and affect the well being of the affected patients due to the difficulty of performing several normal activities in daily life The mechanisms involved in urinary bladder control are not fully understood and thus available treatments for lower urinary tract disorders are not always effective representing a challenge in therapeutics and clinics Also the etiology of many disturbances affecting the lower urinary tract remains unknown Despite the fact that classic neural pathways involved in urinary bladder control have been described and accepted up to now and that different local bladder mediators have been identified additional mechanisms involved in urinary bladder control are presumably important

**Cumulated Index Medicus** ,1994 Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992

Novel mechanisms involved in urinary bladder control: Advances in neural, humoral and local factors underlying function and disease, volume II Monica Akemi Sato,Laurival Antonio De Luca,Patrik Aronsson,Russ Chess-Williams,2023-02-15

Purinergic Regulation of Respiratory Diseases Maryse Picher,Richard C. Boucher,2011-05-11 We proudly present the first book to integrate all aspects of purinergic signaling in the respiratory system The first chapters introduce basic notions of purinergic pharmacology and metabolism which allows readers from all scientific backgrounds to fully grasp the importance of these signaling networks for airway defenses including mucociliary clearance and inflammatory responses Then chapters are devoted to the groundbreaking discovery that chronic respiratory diseases including asthma cystic fibrosis and chronic obstructive pulmonary disease COPD present specific aberrances in purinergic signaling which essentially drive lung complications The last chapters describe the animal models used to investigate purinergic signaling in respiratory diseases and the therapeutic applications developed by the pharmaceutical industry based on receptor agonists antagonists and metabolic correctors This highly comprehensive manuscript constitutes an invaluable tool for beginners and experts to follow the rapidly evolving research field of purinergic signaling Furthermore the critical analysis of past clinical protocols should facilitate the identification of potent therapeutic targets and provide a better understanding of the data acquired in current clinical trials **Research Awards Index** ,1988

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