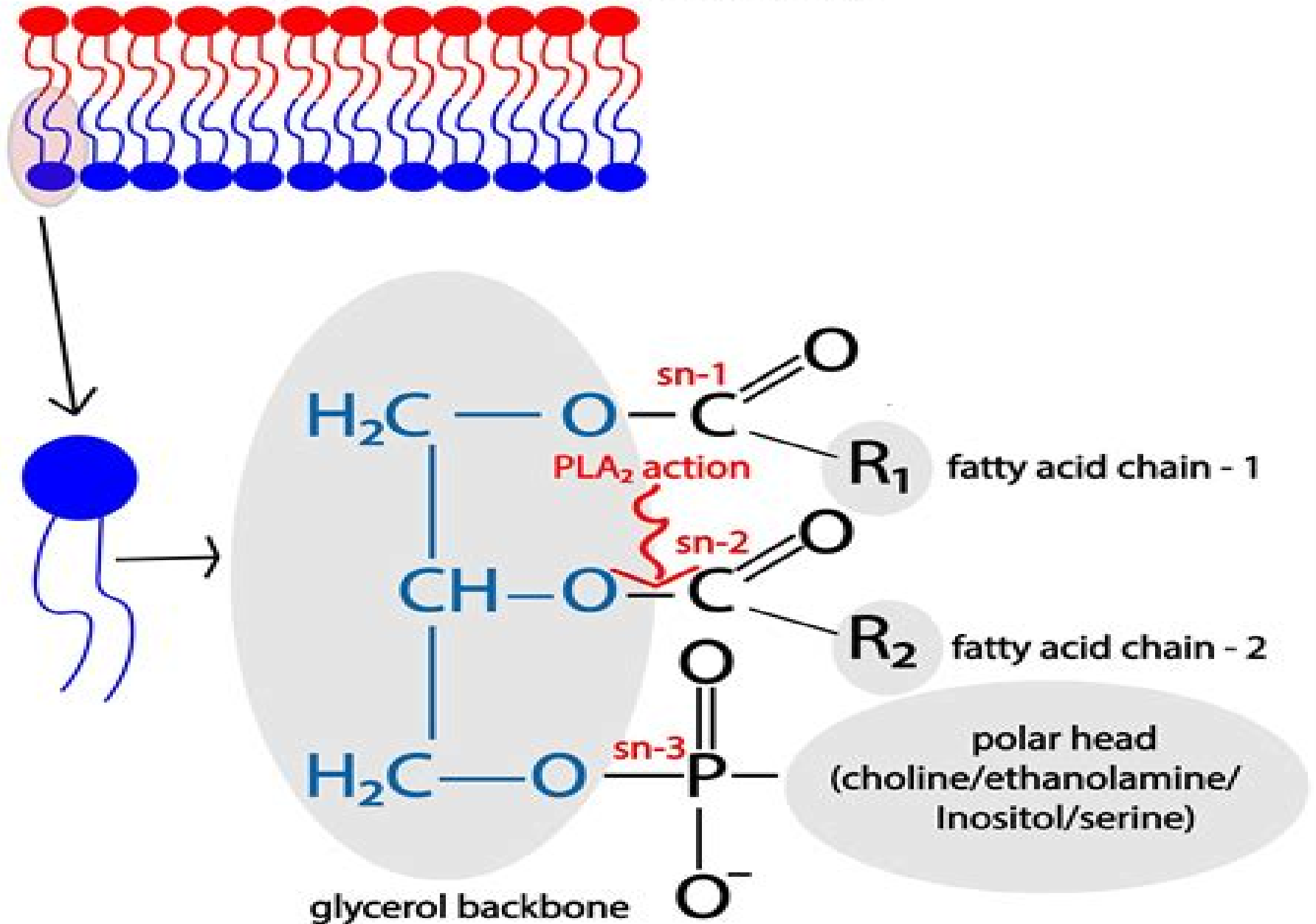


## Phospholipids in membrane bilayer



# Phospholipase A2

**Tao Wei**



## **Phospholipase A2:**

**Phospholipase A2** Patrick Y-K Wong, Edward A. Dennis, 2012-12-06 This volume in the Advances in Experimental Medicine and Biology Series is dedicated to developing an overall view of the state of the art of knowledge in the field of phospholipase A2 and to exploring the role and function of this enzyme in various inflammatory diseases This book grew out of two major symposia on phospholipase A2 held in 1989 I Phospholipase A2 Pathophysiological Role of Soluble and Membrane Bound Enzymes organized by Dr Doug Morgan and Dr Ann Welton of Hoffmann La Roche and sponsored by the New York Academy of Sciences January 24 1989 II Release and Function of Phospholipase A2 from Inflammatory Cells organized by Dr Patrick Wong and Dr Edward Dennis at the FASEB meeting in New Orleans March 22 1989 Readers will find exciting advances in our understanding of the structure function and molecular biology of phospholipase A2 research which is presented in this volume The elucidation of gene structures of phospholipase A2 should lead to new insights and new approaches in the control and regulation of the enzyme activity This is primary to better understanding the function of phospholipase A2 and the determination of its activity in cellular and animal systems Of great importance is the development of animal models for inflammatory disease in order to evaluate the role of phospholipase A2 and its inhibitors We are convinced that this volume will be an excellent reference that surveys this field in which numerous investigators are currently actively at work The Phospholipases Moseley Waite, 2012-12-06 Phospholipase A2 in Clinical Inflammation Molecular Approaches to Pathophysiology Keith B. Glaser, Peter Vadas, 1995-08-03 Phospholipase A2 in Clinical Inflammation presents an up to date topical review of the biochemistry molecular biology and biology of mammalian phospholipase A2 PLA2 The emphasis of this monograph is on the current aspects of PLA2 research using molecular approaches to investigate PLA2 structure and function inhibitor design and the regulation of sPLA2 and cPLA2 in cellular systems The second section examines the major disease states where PLA2 has been implicated rheumatoid diseases acute pancreatitis and psoriasis These chapters contributed by experts in the field give the reader an overall sense of the clinical relevance of the molecular approaches to study PLA2 in relation to the disease entities that may be associated with altered PLA2 levels and activity This comprehensive text not only provides the necessary historical review for beginning researchers but also addresses the more current molecular approaches as well as the major disease states for the seasoned researcher

*Phospholipases in Physiology and Pathology* Sajal Chakraborti, 2023-08-17 Phospholipases in Physiology and Pathology presents a comprehensive overview on the physiology and pathology of phospholipases This seven volume set considers the biochemical and molecular mechanisms of normal and abnormal cell function upon dysregulation of phospholipases in different diseases Volumes cover signal transduction mechanisms implications in cancer infectious diseases neural diseases cardiovascular diseases and other diseases implications in inflammation apoptosis gene expression and non coding RNAs the role of natural and synthetic compounds and stem cell therapies nanotechnology based therapies and more Together these

volumes give researchers critical insight on the mechanistic and therapeutic aspects of phospholipases Discusses the biochemical and molecular mechanisms of normal and abnormal cell function in different disease processes Covers a wide range of basic and translational research appropriate for scientists engaged in studying the regulation of phospholipases from interdisciplinary perspectives Features state of the art chapter contributions from international leaders in the field

Phospholipase A2 W. Uhl, T. J. Nevalainen, M. W. Büchler, E. H. Farthmann, 1997 This volume provides a state of the art overview of the role of phospholipase A2 PLA2 in the pathophysiology of inflammatory diseases Our knowledge about PLA2 has increased tremendously in the last two decades and investigations of the enzyme have revealed a whole family of different gene products A rough distinction can be made between intracellular and secretory PLA2 The involvement of PLA2 in various life threatening inflammatory diseases as well as in carcinomas is documented by many contributions to this volume Recently developed transgenic and knockout mouse models are a powerful new tool for PLA2 research A number of specific inhibitors of the various PLA2s offer new therapeutic approaches to control unwanted acute and chronic inflammatory responses and to intervene in malignant diseases Due to the enzyme's important role in these pathophysiological processes this update of PLA2 research will interest basic scientists physicians oncologists ICU specialists and surgeons

**The Regulation of Membrane Lipid Metabolism, Second Edition** Guy A. Thompson, Jr., 1992-03-10 This book provides a concise description of the metabolic pathways by which lipids of animal and plant membranes are formed The book emphasizes modulation of these pathways by hormones diet environmental stress and other factors This new edition is extensively revised containing new material on topics such as lipid mediated signal transduction and lipid induced protein translocation The new edition also features an entirely new chapter on lipids covalently bound to proteins The book is excellent for all researchers and students interested in membrane lipid metabolism

*Cumulated Index Medicus*, 1978 Transduction Mechanisms in Cellular Signaling Edward A. Dennis, Ralph A. Bradshaw, 2011-04-12 Cell signaling which is also often referred to as signal transduction or in more specialized cases transmembrane signaling is the process by which cells communicate with their environment and respond temporally to external cues that they sense there All cells have the capacity to achieve this to some degree albeit with a wide variation in purpose mechanism and response At the same time there is a remarkable degree of similarity over quite a range of species particularly in the eukaryotic kingdom and comparative physiology has been a useful tool in the development of this field The central importance of this general phenomenon sensing of external stimuli by cells has been appreciated for a long time but it has truly become a dominant part of cell and molecular biology research in the past three decades in part because a description of the dynamic responses of cells to external stimuli is in essence a description of the life process itself This approach lies at the core of the developing fields of proteomics and metabolomics and its importance to human and animal health is already plainly evident Provided by publisher

*Handbook of Cell Signaling* Ralph A. Bradshaw, Edward A. Dennis, 2009-11-03 Handbook of Cell Signaling Three

Volume Set 2e is a comprehensive work covering all aspects of intracellular signal processing including extra intracellular membrane receptors signal transduction gene expression translation and cellular organotypic signal responses The second edition is an up to date expanded reference with each section edited by a recognized expert in the field Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Handbook of Cell Signaling 2 e will appeal to a broad cross disciplinary audience interested in the structure biochemistry molecular biology and pathology of cellular effectors Contains over 350 chapters of comprehensive coverage on cell signaling Includes discussion on topics from ligand receptor interactions to organ organism responses Provides user friendly well illustrated reputable content by experts in the field Platelets in Thrombotic and Non-Thrombotic Disorders Paolo Gresele,2002-05-30 Platelets have become an important research target for clinicians and basic scientists in a range of medical disciplines This book reviews current science and applications in fields including thrombosis and hemostasis signal transduction and non thrombotic conditions such as inflammation allergy and tumor metastasis It is a detailed up to date highly referenced text for clinical scientists and physicians including recent developments in this rapidly expanding field It will be an essential reference for biomedical scientists and clinicians in hematology vascular medicine cardiology thrombosis and related disciplines

**Inflammation** Robert R. Ruffolo, Jr.,Mannfred A. Hollinger,1995-06-21 Inflammation Mediators and Pathways reviews key developments in the field of inflammation It focuses on novel pathways of inflammation that have only recently surfaced All the topics covered are currently the subject of intense investigation and all contributors are established investigators in the field

**Metalloenzymes** Claudiu T. Supuran,William Alexander Donald,2023-08-30 Metalloenzymes From Bench to Bedside offers a thorough overview of metalloenzymes spanning biochemical and structural features pharmacology and biotechnological applications After a brief overview international experts in the field discuss a wide range of magnesium calcium zinc manganese nickel iron copper cadmium molybdenum and tungsten enzymes along with catalytic roles within their active sites With a uniform approach throughout each chapter includes the structure and function of the enzyme physiologic and pathologic roles inhibitors and activators of the enzyme and their design and clinical agents or compounds applied in medicine and drug discovery This book enables scientists across academia and industry to adopt ongoing metalloenzyme research and continuous discovery of novel metalloenzymes in new life science studies and clinical applications Examines a range of metalloenzymes from biochemistry to pharmacology and drug design Each chapter examines enzyme structure and function physiologic and pathologic roles inhibitors and activators and clinical application Features chapter contributions from international experts in the field Eicosanoids and other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury 3 Kenneth V. Honn,Lawrence J. Marnett,Santosh Nigam,Robert L. Jones,Patrick Y-K Wong,2013-11-21 Proceedings of the Fourth International Conference held in Hong Kong October 4 7 1995

**Environmental Health Perspectives** ,1990 Intestinal Lipid Metabolism Charles M. Mansbach II,Patrick Tso,Arn

Kuksis,2011-06-28 This book was stimulated by the enthusiasm shown by attendees at the meetings in Saxon River VT sponsored by the Federation of American Societies for Experimental Biology FASEB on the subject of the intestinal processing of lipids When these meetings were first started in 1990 the original organizers two of whom are editors of this volume CMM and PT had two major goals The first was to bring together a diverse group of investigators who had the common goal of gaining a better understanding of how the intestine absorbs lipids The second was to stimulate the interest of younger individuals whom we wished to recruit into what we believed was an exciting and fruitful area of research Since that time the field has opened up considerably with new questions being asked and new answers obtained suggesting that our original goals for the meetings were being met In the same spirit it occurred to us that there has not been a recent book that draws together much of the information available concerning how the intestine processes lipids This book is intended to reach investigators with an interest in this area and their pre and post doctoral students The chapters are written by individuals who have a long term interest in the areas about which they write and many have been speakers at the subsequent FASEB conferences that have followed on the first Phospholipases in Health and Disease Paramjit S. Tappia, Naranjan S. Dhalla, 2014-03-13 Phospholipases generate lipid signaling molecules through their hydrolytic action on phospholipids and are known to regulate function of a variety of cells under normal and diseased conditions While several physiological biochemical and molecular techniques have identified key players involved in different disease processes phospholipases have also emerged as critical players in the pathogenesis of a number of different diseases including cancer and heart disease In addition phospholipases are also implicated in such conditions as brain disorder injury kidney and immune cell dysfunction Phospholipases in Health and Disease is a compilation of review articles dedicated to the study of the field with respect to biochemical and molecular mechanisms of normal and abnormal cell function The wide range of area covered here is of interest to basic research scientists clinicians and graduate students who are engaged in studying pathophysiological basis of a variety of diseases Furthermore this book highlights the potential of the different phospholipases as therapeutic targets as well as part of prevention strategies Twenty three articles in this book are organized in four sections that are designed to emphasize the most characterized forms of the phospholipases in mammalian cells The first section discusses general aspect of phospholipases Section two covers the role and function of phospholipase A in different pathophysiological conditions The third section is focussed on phospholipase C which is believed to play a central role in transmembrane signaling The final section covers phospholipase D which is present in a variety of different cells The book illustrates that the activation of phospholipases is of fundamental importance in signal transduction affecting cell function Overall this book discusses the diverse mechanisms of phospholipase mediated signal transduction in different pathophysiological conditions and raises the possibility of specific forms of phospholipases serving as novel targets for drug development Lipid-Mediated Signaling Eric J. Murphy, Eric Murphy, Thad Rosenberger, Thad A. Rosenberger, 2010-03-05

As the highly anticipated update to Lipid Second Messengers CRC Press 1999 Lipid Mediating Signaling is a current and comprehensive overview of research methods used in lipid mediated signal transduction Pioneering experts provide a much needed distillation of a decade s worth of advances in research techniques that are pertinent in understand ,

*Parvoviruses* Jonathan Kerr,Susan Cotmore,Marshall E Bloom,2005-11-25 This comprehensive reference work brings together for the first time information on every aspect of the parvoviruses in a single volume It presents the new system of parvovirus classification as agreed by the International Committee for the Taxonomy of Viruses ICTV and includes cutting edge information on the virology molecular and cellular biology immunology and clinical manifestations of infection with each known and proposed member of the family Parvoviridae The book also describes the rapidly expanding basic and clinical science which underpins gene therapy applications using helper dependent and helper independent parvoviruses The respected editorial group has drawn together renowned contributors from around the world to produce what will undoubtedly become the standard reference on the subject It is essential reading for clinical or research virologists and microbiologists infectious disease specialists and public health specialists and laboratories

**Signal Transduction in Mast Cells and Basophils** Ehud Razin,Juan Rivera,1999-05-11 Mast cells and basophils are responsible for inflammatory and allergic reactions As such the signals that generate these responses and how their pathways of action work are the focus of much present day research into allergy and inflammation This book focuses primarily on the molecular mechanisms that govern mast cell and basophil cell biology and function as well as providing a comprehensive summary of the field of signal transduction and also giving insights into areas that have therapeutic potential The book provides detailed insights into mast cell and basophil growth and development their activation by allergens including details of receptor activation and downstream events and the regulators of morphology and degranulation The metabolic pathways involved in prostaglandin and leukotriene production are discussed as is the role of transcription factors in mast cell growth and cytokine production Written by leaders in the field this volume will provide the reader with an up to date account of a topic where the rapid progress makes conventional information gathering difficult

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