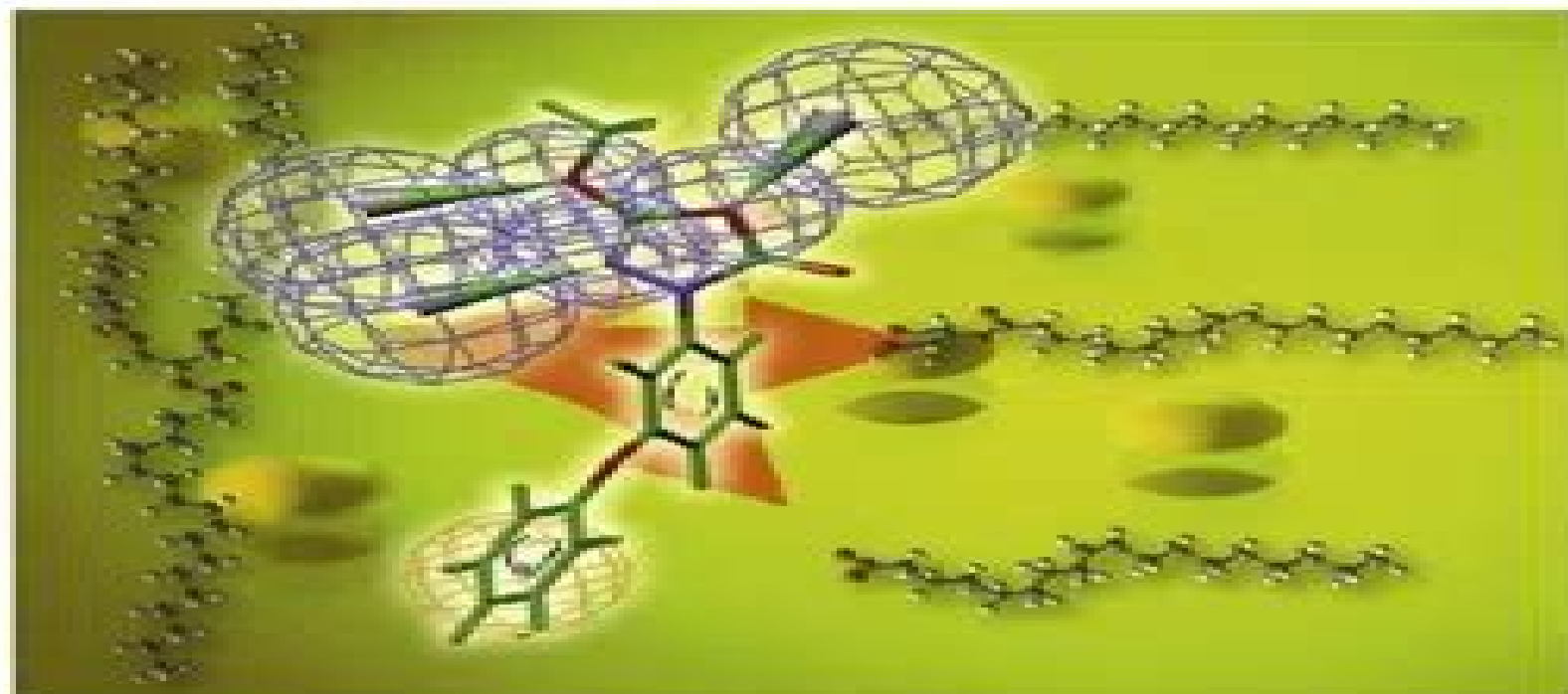


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# Lipases and Phospholipases in Drug Development

From Biochemistry to Molecular Pharmacology



# Lipases And Phospholipases In Drug Development

**Monzer Fanun**



## **Lipases And Phospholipases In Drug Development:**

**Lipases and Phospholipases in Drug Development** Günter Müller, Stefan Petry, 2006-03-06 Lipases and Phospholipases are key control elements in mammalian metabolism They share many common features that set them apart from other metabolic enzyme classes most importantly their association with biological membranes Their potential as drug targets for the treatment of metabolic diseases is widely recognized and the first lipase inhibitor drugs have been successfully introduced Providing drug developers with a firm foundation for lipase centered drug design the editors of this volume have assembled experts from different scientific disciplines to create a comprehensive handbook for all pharmaceutical chemists biochemists and physiologists working with lipases The authors examine fundamental aspects of lipase function in vitro and in vivo explaining how this knowledge may be used to develop lipase assays They also treat the physiological roles of lipases in normal and disordered metabolism as well as strategies to target lipases for the treatment of diabetes obesity and related disorders Additional topics include the application of phospholipases for liposome based drug delivery and their use as diagnostic tools

**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

**Drug Discovery and Evaluation: Pharmacological Assays** Hans Vogel, 2007-10-30 The new edition of this successful reference offers

both cutting edge and classic pharmacological methods Thoroughly revised and expanded to two volumes it offers an updated selection of the most frequently used assays for reliably detecting the pharmacological effects of potential drugs Every chapter has been updated and numerous assays have been added Each of the more than 1 000 assays comprises a detailed protocol outlining purpose and rationale and a critical assessment of the results and their pharmacological and clinical relevance

**Unique Sequence Signatures in Plant Lipolytic Enzymes: Emerging Research and Opportunities** Ben Halima, Nihed, 2018-12-04 Lipids are biomolecules that constitute a significant amount of biomass in the earth and plant lipids are rapidly growing in interest due to their roles in improving food technology medicine nutrition and biotechnology With recent advances in protein chemistry biochemistry and enzymology promoting research on lipolytic enzymes it is important for research to address the mechanisms of such enzymes and their diverse functions Unique Sequence Signatures in Plant Lipolytic Enzymes Emerging Research and Opportunities provides innovative insights into the biochemistry of plant lipases and phospholipases as well as their structures and catalytic mechanisms The book explores the conserved domains and motifs of plant lipolytic enzymes by identifying the main residues involved in the catalysis in the enzymes and the phylogeny of important plant lipolytic enzymes as well as calculating the evolutionary distance in those enzymes Organized into six chapters it is a vital reference source for researchers chemists biologists academicians practitioners medical professionals engineers and graduate students

*Natural Products from Actinomycetes* Ravishankar V. Rai, Jamuna A. Bai, 2022-04-15 This book provides in depth information about the ecology diversity and applications of Actinomycetes The book is divided into two major parts The first part discusses the diversity chemical biology and ecology of Actinomycetes It also covers the discovery of natural products from soil endophytic and marine derived Actinomycetes It includes natural product discovery chemical biology new methods for discovering secondary metabolites structure elucidation and biosynthetic research of natural products The chapters in this part focus on the effects of biological and chemical elicitation at molecular level on secondary metabolism in Actinomycetes The second part of the book discusses genomic and synthetic biology approaches in Actinomycetes drug discovery This part includes chapters focused on the application of metabolic engineering to optimize natural product synthesis and the use of omics data in engineering of regulatory genes It covers the advanced tools of synthetic biology and metabolic engineering including cluster assembly CRISPR Cas9 technologies and chassis strain development for natural product overproduction in Actinomycetes It describes the use of bioinformatics tools for reprogramming of biosynthetic pathways through polyketide synthase and non ribosomal peptide synthetase engineering These advanced genomic and molecular tools are expected to accelerate the discovery and development of new natural products from Actinomycetes with medicinal and other industrial applications The book is useful to researchers and students in the field of microbiology pharmaceutical sciences and drug discovery

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

Principles of Molecular Rheumatology George C. Tsokos,2000-07-24 George Tsokos and a panel of authoritative clinicians and researchers synthesize the latest findings from across cell and molecular biology with the basic principles of rheumatology to create the first textbook of molecular rheumatology These established experts describe the biochemical mechanisms by which apoptosis cell signaling complement lipids and viruses contribute to disease expression and detail both immune and nonimmune cell function in rheumatic diseases Their review of the major rheumatic diseases integrates the cellular biochemical and molecular biological mechanisms that are important in rheumatic disease pathogenesis Path breaking and illuminating Principles of Molecular Rheumatology expands the envelope of clinical understanding to reveal the biological roots underlying rheumatologic disease as well as the nature and roles of the powerful new therapeutics now emerging for its optimal treatment

**Formulating Poorly Water Soluble Drugs** Robert O. Williams III,Alan B. Watts,Dave A. Miller,2016-12-16 The objective of this volume is to consolidate within a single text the most current knowledge practical methods and regulatory considerations pertaining to formulations development with poorly water soluble molecules A pharmaceutical scientist s approach toward solubility enhancement of a poorly water soluble molecule typically includes detailed characterization of the compound s physiochemical properties solid state modifications advanced formulation design non conventional process technologies advanced analytical characterization and specialized product performance analysis techniques The scientist must also be aware of the unique regulatory considerations pertaining to the non conventional approaches often utilized for poorly water soluble drugs One faced with the challenge of developing a drug product from a poorly soluble compound must possess at minimum a working knowledge of each of the abovementioned facets and detailed knowledge of most In light of the magnitude of the growing solubility problem to drug development this is a significant burden especially when considering that knowledge in most of these areas is relatively new and continues to develop

*Advances in Antifungal Drug Development* Nikhat Manzoor,2024-08-29 This book explores the antifungal properties of natural products and reviews their antifungal mechanism An introductory chapter illustrates the various fungal pathogenic

species common fungal diseases and general mechanisms of action of various antifungal classes including natural products. The book comprises seven sections and each section contains chapters on the efficacy and antifungal mode of action of plant extracts, essential oils, natural compounds, their derivatives, and plant-based nanoparticles. A section summarizes the antifungal efficacy of compounds derived from sources other than plants like microbes. Besides compound toxicity, the book explores the antifungal mode of action and efficacy against the virulence and pathogenicity of fungal pathogens like *Candida*, *Aspergillus*, *Cryptococcus*, *Histoplasma*, and other pathogenic fungi. Further, the book also describes recent advancements in the discovery of novel drug targets and therapeutic strategies that are non-toxic and more efficacious for combating drug resistance. This book is an invaluable source for researchers working in the field of fungal biochemistry, anti-microbial and anti-bacterial, and undergraduate and postgraduate students of microbiology and pharmacology.

***Colloids in Drug Delivery*** Monzer Fanun, 2016-04-19 Colloidal drug delivery systems present a range of therapeutic benefits in the treatment of a number of challenging conditions, allowing researchers to cross barriers that have previously prevented efficient treatment while offering improved and more targeted absorption. Summarizing recent research in the field, *Colloids in Drug Delivery* assembles

***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.

***Recent Developments in Plant Biotechnology*** Nihed Ben Halima, 2019-08-13 This volume explores advances in plant biotechnology and focuses on the use of lipids and proteins extracted from different kinds of plants/tissues in potential industrial applications. In fact, lipidomics and proteomics refer to the advancement of technologies such as chromatography and mass spectrometry to study lipids and proteins. As such, the book discusses an important emerging field of research concerning the use of different plants to produce compounds with high value. As such, it will appeal to readers with an interest in medical, biochemical, and biotechnological disciplines.

***Therapeutic Protein Targets For Drug Discovery And Clinical Evaluation: Bio-crystallography And Drug Design D*** Velmurugan, Atanu Bhattacharjee, D Gayathri, 2022-10-04 The book reviews the recent research advances and their outcomes in the areas of structural biology, bioinformatics, phytochemistry, and drug discovery. Chapters in the book cover

multidisciplinary research to understand the molecular mechanisms involved in protein protein ligand interactions It employs an integrative approach to identify the therapeutic targets for HIV and cancer pathogen and viral infection pathways and the identification of their potential drug candidates The book also provides examples of computational molecular dynamics simulations to understand the conformational changes in the molecules Some chapters are focused on exploring potent bioactive compounds from natural sources This book can serve as a single source that covers several interdisciplinary research fields which will be beneficial to Researchers and students in postgraduate studies **American Book**

**Publishing Record** ,2005 Carboxylic Ester Hydrolases—Advances in Research and Application: 2013 Edition ,2013-06-21 Carboxylic Ester Hydrolases Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Cholinesterases The editors have built Carboxylic Ester Hydrolases Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Cholinesterases in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Carboxylic Ester Hydrolases Advances in Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Industrial Enzymes* Julio Polaina,Andrew P. MacCabe,2007-05-16 Man s use of enzymes dates back to the earliest times of civilization Important human activities such as the production of certain types of foods and beverages and the tanning of hides and skins to produce leather for garments serendipitously took advantage of enzyme activities Important advances in our understanding of the nature of enzymes and their action were made in the late 19th and early 20th centuries seeding the explosive expansion from the 1950s and 60s onward to the present billion dollar enzyme industry Recent developments in the fields of genetic engineering and protein chemistry are bringing ever more powerful means of analysis to bear on the study of enzyme structure and function that will undoubtedly lead to the rational modification of enzymes to match specific requirements as well as the design of new enzymes with novel properties This volume reviews the most important types of industrial enzymes covering in a balanced manner three interrelated aspects of paramount importance for enzyme performance three dimensional protein structure physicochemical and catalytic properties and the range of both classical and novel applications The material covered will be of interest to undergraduate and graduate students in biochemistry biotechnology and applied microbiology in addition to researchers and industrialists **Nitric Oxide Donors** Peng George Wang,Tingwei Bill Cai,Naoyuki Taniguchi,2005-08-16 Nitric oxide is a highly potent regulatory molecule with great pharmaceutical potential This handbook fills a real gap in combining the chemistry of nitric oxide releasing substances with their practical applications in biology and drug design It

covers all classes of nitric oxide donors from organic nitrates to nitroso compounds guanidines and metal NO complexes In addition to a detailed treatment of the chemistry of NO donors numerous examples of successful diagnostic and pharmacological applications are discussed as well as further therapeutic targets for these substances Lysosomes Frederick R. Maxfield, James M. Willard, Shuyan Lu, 2016-05-31 Discussing recent findings up to date research and novel strategies the book integrates perspectives from pharmacology toxicology and biochemistry to illustrate the potential of lysosomes in drug discovery and development Explores basic principles and properties of lysosomes that allow them to act as regulators of cell metabolism therapeutic targets and sites for activation of drug conjugates Discusses the role of lysosomes in metabolism drug targeting apoptosis cancer aging inflammation autophagy metabolism toxicity and membrane repair Introduces new pathways in therapeutic development and new mechanisms in drug development Applications of Nanobiotechnology for Neglected Tropical Diseases Fabio Rocha Formiga, Inamuddin, Patrícia Severino, 2021-02-20 Applications of Nanobiotechnology for Neglected Tropical Diseases describes recent advances in nanobiotechnology that can be applied to reducing the global disease burden of neglected tropical diseases NTDs The book explores the application of nanotechnology on the development of safe effective and reliable tools to prevent diagnose and treat NTDs Furthermore Applications of Nanobiotechnology for Neglected Tropical Diseases includes multidisciplinary content combining knowledge from biochemistry medicinal chemistry material sciences pharmacology and pharmaceuticals The book is divided into three main parts each outlining one major type of approach 1 nano based approaches for prevention 2 nano diagnostics and detection and 3 nanotherapeutics Each part contains chapters that delve into the different applications of the type of approach being presented in that part A discussion of other approaches against NTD follows these three parts This book is remarkable in its ability to encompass and thoroughly explain the latest techniques in nanobiotechnology from basic research to patient oriented investigation Offers a broad overview of nanobiotechnology applied to the prevention diagnostics and treatment of NTDs Presents cutting edge recent advances in nanobiotechnology focusing on diseases reported by the World Health Organization s NTDs Roadmap e g leishmaniasis malaria schistosomiasis filariasis etc Provides a deep discussion about ground breaking approaches designed to meet the medical needs of patients suffering from NTDs Gives examples of multidisciplinary investigations into NTDs from research labs to clinics Feeding Horses Gulsah Kaya Karasu, Peter Huntington, 2025-03-04 This concise handbook provides evidence based practical horse nutrition accessible to all readers Standing out from very dense theoretical and practical horse nutrition books it arms equine students veterinary students and horse owners with practically applicable information bringing theory and practice together At the end of each chapter veterinarian and equine nutrition experts Dr Gulsah Kaya Karasu and Dr Peter Huntington provide guidance on practical applications calculations and the real life use of information For example how is gastric ulcer formation triggered by traditional horse feeding How can the risk of gastric ulcer formation be reduced with evidence based feeding Divided into

four parts the book covers the horse s digestive system types of feeds formulating rations and nutrition related health disorders Its scientifically validated practical information will be invaluable for horse owners students and trainers equine nutritionists and practitioners within the equine industry

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