

ADVANCES IN  
EXPERIMENTAL  
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Volume 433

# **RECENT ADVANCES IN PROSTAGLANDIN, THROMBOXANE, AND LEUKOTRIENE RESEARCH**

Edited by Helmut Sinzinger,  
Bengt Samuelsson, John R. Vane,  
Rodolfo Paoletti, Peter Ramwell,  
and Patrick Y-K Wong

# Prostaglandins And Perinatal Medicine Advances In Prostaglandin And Thromboxane Research Vol 4

**Bengt Samuelsson**



## **Prostaglandins And Perinatal Medicine Advances In Prostaglandin And Thromboxane Research Vol 4:**

*Advances in Prostaglandin and Thromboxane Research: Prostaglandins and perinatal medicine* Bengt Samuelsson, Rodolfo Paoletti, 1978      Prostaglandins and their Inhibitors in Clinical Obstetrics and Gynaecology M. Bygdeman, G. Berger, L.G. Keith, 2012-12-06 It is clear today that several prostaglandins play an important role in the regulation of many of the physiological events of the reproductive organs in the human Both naturally occurring prostaglandins and their analogues are used routinely in many countries to ripen the cervix and induce labour at term as well as to dilate the cervix and to terminate pregnancy Prostaglandin biosynthesis inhibitors are widely used in the treatment of primary dysmenorrhoea The editors have aimed at an accurate thorough yet easily understandable review of the status in 1986 of medical knowledge regarding both the physiological importance and the clinical use of prostaglandins and their inhibitors in obstetrics and gynaecology I believe this book will be of value for all clinicians concerned with reproductive health The list of authors guarantees an authoritative and up to date review of this active field SUNE BERGSTROM Karolinska Institutet Stockholm Sweden Table Examples of clinical use of natural prostaglandins and some prostaglandin analogues Indications Prostaglandin Route of administration Manufacturer Dilatation of the cervix prior 15 methyl PGF Intramuscular Upjohn USA 2 to vacuum aspiration 16 phenoxy PGE methyl sulphonylamide Intramuscular Schering AG West Germany 2 16 16 dimethyl PGE methyl ester 1 Vaginal ONO Japan May ONO Japan PGF 20 Upjohn USA PGE Vaginal 2 Upjohn USA 15 methyl PGF 2      *Eicosanoids in Reproduction* Murray D. Mitchell, 2020-04-22 The purpose of this book is to provide comprehensive coverage and an update of the major roles of eicosanoids in reproduction It presents considerable evidence of the importance of lipoxygenase metabolites of arachidonic acid metabolism in reproductive processes This interesting volume embraces a multidisciplinary approach to research in reproduction biochemistry endocrinology physiology pharmacology etc at all levels from whole animal studies through organ cellular and molecular approaches This one of a kind work provides several clinically relevant chapters and places emphasis on the relevance to human reproduction when applicable This text is an excellent update for researchers and clinicians on the current state of knowledge of the role of eicosanoids in mechanisms critical for successful reproductive function This informative easy to read resource is also useful to all those with a more specific interest in obstetrics gynecology clinical endocrinology and the study of fertility

*Advances in Perinatal Medicine* Aubrey Milunsky, Emanuel A. Friedman, Louis Gluck, 2013-11-21 The state of health care is reflected by perinatal and neonatal morbidity and mortality as well as by the frequencies of long term neurological and developmental disorders Many factors some without immediately recognizable significance to childbearing and many still unknown undoubtedly contribute beneficially or adversely to the outcome of pregnancy Knowledge concerning the impact of such factors on the fetus and surviving infant is critical Confounding analyses of pregnancy outcome especially these past 2 or 3 decades are the effects of newly undertaken invasive or inactive therapeutic approaches coupled with the advent of high

technology Many innovations have been introduced without serious efforts to evaluate their impact prospectively and objectively The consequences of therapeutic misadventures characterized the past it seems they have been replaced to a degree by some of the complications of applied technology Examples abound after overuse of oxygen was recognized to cause retrolental fibroplasia its restriction led to an increase in both neonatal death rates and neurologic damage in surviving infants Administration of vitamin K to prevent neonatal hemorrhagic disease particularly when given in what we now know as excessive dosage occasionally resulted in kernicterus Prophylactic sulfonamide use had a similar end result More recent is the observation of bronchopulmonary dysplasia as a complication of respirator therapy for hyaline membrane disease The decade of the eighties opened with the all time highest rate of cesarean section in the United States **Creasy and**

**Resnik's Maternal-Fetal Medicine: Principles and Practice E-Book** Robert K. Creasy, Robert Resnik, Jay D. Iams, Charles J. Lockwood, Thomas Moore, Michael F Greene, 2013-09-17 Minimize complications with Creasy and Resnik's Maternal Fetal

Medicine This medical reference book puts the most recent advances in basic science clinical diagnosis and management at your fingertips equipping you with the up to date evidence based guidelines and knowledge you need to ensure the best possible outcomes in maternal fetal medicine Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Apply today's best practices in maternal fetal medicine with an increased emphasis on evidence based medicine Find dependable state of the art answers to any clinical question with comprehensive coverage of maternal fetal medicine from the foremost researchers and practitioners in obstetrics gynecology and perinatology Take advantage of the most recent diagnostic advances with a new section on Obstetrical Imaging complemented by online ultrasound clips as well as cross references and links to genetic disorder databases Stay on top of rapidly evolving maternal fetal medicine through new chapters on Recurrent Spontaneous Abortion Stillbirth Patient Safety Maternal Mortality and Substance Abuse as well as comprehensive updates on the biology of parturition fetal DNA testing from maternal blood fetal growth prenatal genetic screening and diagnosis fetal cardiac malformations and arrhythmias thyroid disease and pregnancy management of depression and psychoses during pregnancy and the puerperium and much more Access the complete contents online at Expert Consult **Advances in Nutritional Research** H. Draper, 2013-06-29 The third volume of

Advances in Nutritional Research continues the precedent set in previous volumes of providing authoritative reviews on the current state of knowledge with respect to major topics of ongoing nutritional research This series is designed to be of value to investigators engaged in fundamental research as well as to those involved in its application to problems in human and animal nutrition This volume contains three chapters on recent developments in research on inorganic elements including a review by F H Nielsen of the evidence for a requirement for additional trace elements a conspectus by C E Casey and K M Hambidge on the occurrence of trace element deficiencies in man and a description by M Janghorbani and V R Young of new methods of assessing the bioavailability of minerals in the diet There are also three chapters on current topics of lipid

research One by F D Sauer is devoted to the cardiopathic effects of certain dietary monoenic fatty acids another by C Galli to the influence of diet on prostaglandin synthesis and the third by H O Bang and J Dyerberg to an analysis of the role of the unusual polyunsaturated fatty acids found in marine oils in the prevention of ischemic heart disease Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice Robert Resnik, MD, Robert K. Creasy, MD, Jay D. Iams, MD, Charles J. Lockwood, MD, MHC, Thomas Moore, MD, Michael F Greene, MD, 2013-11-06 Minimize complications with Creasy and Resnik's Maternal Fetal Medicine This medical reference book puts the most recent advances in basic science clinical diagnosis and management at your fingertips equipping you with the up to date evidence based guidelines and knowledge you need to ensure the best possible outcomes in maternal fetal medicine Creasy Resnik's Maternal Fetal Medicine Principles and Practice remains an authoritative reference book for clinical residents fellows and practicing specialists in Maternal Fetal Medicine Reviewed by Ganesh Acharya Feb 2015 Apply today's best practices in maternal fetal medicine with an increased emphasis on evidence based medicine Find dependable state of the art answers to any clinical question with comprehensive coverage of maternal fetal medicine from the foremost researchers and practitioners in obstetrics gynecology and perinatology Take advantage of the most recent diagnostic advances with a new section on Obstetrical Imaging complemented by online ultrasound clips as well as cross references and links to genetic disorder databases Stay on top of rapidly evolving maternal fetal medicine through new chapters on Recurrent Spontaneous Abortion Stillbirth Patient Safety Maternal Mortality and Substance Abuse as well as comprehensive updates on the biology of parturition fetal DNA testing from maternal blood fetal growth prenatal genetic screening and diagnosis fetal cardiac malformations and arrhythmias thyroid disease and pregnancy management of depression and psychoses during pregnancy and the puerperium and much more Access the complete contents online at Expert Consult Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued Eicosanoids and Reproduction K. Hillier, 2012-12-06 The original series Advances in Prostaglandin Research edited by Sultan M M Karim was published by MTP Press in three volumes in 1975 and 1976 A glance at those books illustrates the progress that has been made since then The thromboxanes were mentioned twice first publication 1975 and prostacyclin not once first publication 1976 leukotrienes were only on the horizon The amazing generation of research data in the last 10 15 years has given new broad insights into many areas including asthma inflammation renal cardiovascular and gastrointestinal diseases and in reproduction and has led in some instances to real clinical benefit This series Advances in Eicosanoid Research reflects the current understanding of prostaglandins thromboxanes and leukotrienes The aim is to provide an introductory background to each topic and the most

up to date information available Although each book stands alone the eicosanoids cut across many boundaries in their basic actions selected chapters from each book in the series will provide illuminating and productive information for all readers which will advance their education and research In the production of this series I must acknowledge with pleasure my collaboration with editors and authors and the patient endeavours of Dr Michael Brewis and the staff at MTP Press KEITH HILUER University of Southampton England ix Preface This book is an appraisal of areas in human reproduction where eicosanoid studies prostaglandins leukotrienes and thromboxanes are contributing to physiological and pathological awareness and clinical advances

**Principles and Practice of Obstetrics & Perinatology: Clinical aspects of perinatal medicine** Leslie Iffy, Harold A. Kaminetzky, 1981 Prostaglandins and Related Compounds Bengt Samuelsson, Rodolfo Paoletti, Peter W. Ramwell, 1987 Leukotrienes as Mediators of Asthma and Inflammation Sven-Erik Dahlén, 1994 This volume presents the work of distinguished investigators who have conducted major studies on the role of eicosanoids in inflammation The book provides an informative appraisal of the current state of the art in leukotriene and inflammation research integrating new basic science concepts and clinical findings The primary focus of the book is on the evidence that leukotrienes represent a group of mediators that contribute significantly to the pathobiology of asthma and play a role in other inflammatory disorders The information presented in this volume is of vital importance to pharmacologists biochemists and physiologists as well as to clinicians treating patients with asthma and other inflammatory diseases Alicyclic Compounds Malcolm Sainsbury, 2016-06-24 Rodd's Chemistry of Carbon Compounds Volume II Alicyclic Compounds surveys advances in the chemistry of three to six membered monocarbocycles from 1973 to 1991 This book begins with a detailed review of the conformations and stereochemical analyses of alicycles including higher members of the series and then proceeds to deal with the chemistry of individual ring systems The next chapters cover the prostaglandins and their allies and natural products bearing a cyclohexane cyclohexene or cyclohexadiene ring system A review of the chemistry of the cyclohexadienes and their metallic complexes is provided at the end This text also includes a list of common abbreviations and symbols This volume benefits chemical engineering students particularly those studying the components of organic chemicals *Current Catalog* National Library of Medicine (U.S.), 1983 First multi year cumulation covers six years 1965-70 Neonatal Clinical Pharmacology and Therapeutics George Rylance, David R. Harvey, Jacob V. Aranda, 2013-10-22 Neonatal Clinical Pharmacology and Therapeutics covers the significant advances in clinical pharmacology and the principles of neonatal therapeutics This book is composed of 20 chapters that tackle various neonatal diseases and their corresponding therapeutic options The opening chapters review the pharmacological principles and kinetics placental drug transfer and drug therapy in pregnancy The next chapters consider the other aspects of clinical pharmacology including tocolytics oxytocin maternal drug use neonatal withdrawal prophylaxis and the effect of maternal analgesia and anesthetics on newborn Considerable chapters are devoted to the treatment options of neonatal diseases including apnea pulmonary and systemic

disorders cardiac diseases jaundice hypoglycemia and nutrient deficiencies The remaining chapters discuss other therapeutic options such as blood cell component therapy the use of analgesia and muscle relaxants and parenteral nutrition This book is intended primarily for all doctors who care for newborn babies and clinical pharmacologists     Phospholipases and Prostaglandins Claudio Galli,Giovanni Galli,Giuseppe Porcellati,1978     **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1982     *Mass Spectra of Prostaglandins and Related Products* Cecil Pace-Asciak,1989     Trends in Eicosanoid Biology Bengt Samuelsson,1990     **Animal Models in Fetal Medicine (V)** P. W. Nathanielsz,1986     **Reports of the Ross Pediatric Research Conference** ,1977

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#### **Introduction**

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