

Methods in Molecular Biology

Volume 89

RETINOID PROTOCOLS

Edited by
Christopher P. F. Redfern



Humana Press

Retinoid Protocols

G Thomas



Retinoid Protocols:

Retinoid Protocols Christopher Redfern, 1998-01-16 Interest in retinoic acid the main biologically active derivative of vitamin A or retinol increased dramatically between 1989 and 1993 following the cloning of nuclear receptors or RARs reported in 1987 Fig 1 Important discoveries since then have shown how RARs work as all trans retinoic acid dependent heterodimers with related nuclear receptors for 9 cis retinoic acid called RXRs This has stimulated the development of synthetic analogs specific for each type of receptor and opens the way to develop new methods for regulating pharmacologically the activity of retinoic acid dependent pathways of gene activation The potential for the development of new drugs by the pharmaceutical industry is now a major factor driving forward our understanding of vitamin A regulated pathways in animal development and homeostasis However apart from the real potential of retinoid analogs as novel pharmacological agents there remains the considerable intellectual challenge of understanding the way in which vitamin A and its derivatives function in cell development and differentiation *Retinoid Protocols* is an attempt to bring together various methodologies that will be vital for rising to this challenge in the future Retinoid molecular biology has few methods of its own but is reliant on standard molecular biology methods applied to this particular research area

Retinoids Heinz Nau, William S. Blazer, 2012-12-06 In the future the decade of the 1990s will likely be viewed as a Golden Age for retinoid research There have been unprecedented research gains in the understanding of retinoid actions and physiology since the retinoid nuclear receptors were first identified and the importance of retinoic acid in developmental processes was first broadly recognized in the late 1980s Between then and now our knowledge of retinoid action has evolved from one of a near complete lack of understanding of how retinoids act within cells to one of sophisticated understanding of the molecular processes through which retinoids modulate transcription In this volume we have tried to provide a comprehensive update of the present understanding of retinoid actions with an emphasis on recent advances The initial chapters of the volume or Section A focus on the physicochemical properties and metabolism of naturally occurring retinoids N OY provides an uncommonly encountered view of retinoid effects from the perspective of the physicochemical properties of retinoids V AKIANI and BUCK lend a perspective on the biological occurrence and actions of retro and anhydro retinoids Section B considers both the retinoid nuclear receptors and their mechanisms of action as well as synthetic retinoids that have been used experimentally to provide mechanistic insights into receptor actions and have potential therapeutic use for treating disease PIEDRAFITA and PFAHL provide a comprehensive review of retinoid nuclear receptor biochemistry and molecular biology

Retinoids IARC Working Group on the Evaluation of Cancer-preventive Agents, World Health Organization, International Agency for Research on Cancer, 1999 The retinoids are a class of compounds structurally related to Vitamin A In the last 30 years more than 2 500 retinoids have been synthesized and biologically tested with the objective of identifying those with an enhanced therapeutic ratio The majority have been studied for their cancer preventive activity in experimental models and some in clinical trials in

humans On 24 30 March 1999 a working group of international experts met in Lyon to consider the existing evidence on the cancer preventive activity of nine retinoids judged to have sufficient human and or animal data to permit evaluation This handbook details the evidence considered and summarizes the evaluation made by the working group Retinoid Signaling Pathways ,2020-04-29 Retinoid Signaling Pathways Volume 637 the latest release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Sections in this release include The chemistry and biochemistry of Vitamin A and its natural derivative Biosynthesis of retinoic acids Biodegradation of retinoic acids mediated by retinoid binding proteins Retinoic acid homeostasis Cryo Electron Microscopy to study retinol update via the STRA6 receptor Immuno detection of retinoic acid synthesis enzymes in the brain classical pathway of gene regulation by retinoids Protein protein interactions in the regulation of retinoid acid receptors activity and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Includes the latest information on retinoid signaling pathways Phototherapy Treatment Protocols, Third Edition Steven R. Feldman,Michael D. Zanolli,2016-08-19 This is a step by step manual of protocols for ultraviolet light therapy in the dermatologist s office It provides technical information for UVB PUVA outpatient daycare RePUVA UVA UVB combination hand and foot therapy scalp treatments and hydrotherapy It contains examples of patient education handouts consent forms laboratory flow sheets forms for insurance companies tools for the quantitative measurement of psoriasis severity and more **Phototherapy Treatment Protocols for Psoriasis and Other Phototherapy-Responsive Dermatoses, Second Edition** Michael D. Zanolli,Steven R. Feldman,2004-12-22 This is a step by step manual of protocols for ultraviolet light therapy in the dermatologist s office It provides technical information for UVB PUVA outpatient daycare RePUVA UVA UVB combination hand and foot therapy scalp treatments and hydrotherapy It contains examples of patient education handouts consent forms laboratory flow sheets forms for insurance companies tools for the quantitative measurement of psoriasis severity and more The appendices cover skin type histopathologic evolution of the psoriatic lesion differential diagnosis agents that may cause photosensitivity equipment letters for home UVB unit and ultraviolet light treatment in other conditions The new edition covers modifications to the standard protocols developed at Wake Forest University Medical Center and the Vanderbilt Phototherapy Treatment Center new sections on laser therapy for psoriasis and vitiligo and new material on localized UVB treatments Plant Virology Protocols Gary D. Foster,Sally Taylor,2008-02-03 The aim of Plant Virology Protocols is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation RNA extraction cloning coat protein genes introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance The book then moves on to treatments of the mechanisms of resistance the problems encountered with field

testing and key ethical issues surrounding transgenic technology Although Plant Virology Protocols deals with the cloning and expression of the coat protein gene the techniques described can be equally applied to other viral genes and nucleotide sequences many of which have also been shown to afford protection when introduced into plants The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved Plant Virology Protocols has been divided into six major sections containing 55 chapters in total

Flavoprotein Protocols Steven K. Chapman, Graeme A. Reid, 2008-02-03 As a scientist with an interest in proteins you will at some time in your career isolate an enzyme that turns out to be yellow or perhaps you already have Alternatively you may identify a polypeptide sequence that is related to known flavin containing proteins This may or may not be your first encounter with flavoproteins However even if you are an old hand in the field you may not have exploited the full range of experimental approaches applicable to the study of flavoproteins We hope that Flavoprotein Protocols will encourage you to do so In this volume we have sought to bring together a range of experimental methods of value to researchers with an interest in flavoproteins whether or not these researchers have experience in this area A broad range of techniques from the everyday to the more specialized is described by scientists who are experts in their fields and who have extensive practical experience with flavoproteins The wide range of approaches from wet chemistry to dry computation has as a consequence demanded a range of formats Where appropriate particularly for analytical methods the protocol described is laid out in easy to follow steps In other cases e.g. the more advanced spectroscopies and computational methods it is far more apt to describe the general approach and relevance of the methods We hope this wide ranging approach will sow the seeds of many future collaborations between laboratories and further our knowledge and understanding of how flavoproteins work

Transmembrane Signaling Protocols Dafna Bar-Sagi, 1998 This collection of practical cutting edge techniques for the study of cell signaling provides detailed step by step instructions helpful notes and troubleshooting tips that make even the most powerful of the newest techniques readily reproducible The protocols presented include the use of peptide libraries to study transmembrane signaling the use of single cell assays to analyze signal transduction pathways the reconstitution of signaling complexes methods for analyzing protein protein interactions and more Introductory reviews explain the basic theory and enable researchers new to the area to rapidly gain understanding as well as command of the practical knowledge and expertise afforded by the protocols Transmembrane Signaling Protocols makes available to all researchers the many state of the art techniques that have recently led to landmark discoveries in transmembrane signaling

Molecular Embryology Paul T. Sharpe, Ivor Mason, 2008-02-02 Most people have some interest in embryos this probably results in part from their interest in understanding the biological origins of themselves and their offspring and increasingly concerns about how environmental change such as pollution might affect human development Obviously ethical considerations preclude experimental studies of human embryos and consequently the developmental biologist has turned to other species to examine this process Fortunately

the most significant conclusion to be drawn from the experimental embryology of the last two decades is the manner in which orthologous or closely related molecules are deployed to mediate similar developmental processes in both vertebrates and invertebrates. The molecular mechanisms regulating processes fundamental to most animals such as axial patterning or axon guidance are frequently conserved during evolution. It is now widely believed that the differences between phyla and classes are the result of new genes arising mostly by duplication and divergence of extant sequences regulating the appearance of derived characters. Other vertebrates are obviously most likely to use the same developmental mechanisms as humans and within the vertebrate subphylum the parent degree of conservation of developmental mechanism is considerable. It has long been recognized that particular vertebrate species offer either distinct advantages in investigating particular stages of development or are especially amenable to particular manipulations. No single animal can provide all the answers because not all types of experiments can be carried out on a single species.

Retinoids, Differentiation and Disease Jonathan Nugent, Sarah Clark, 2009-09-14 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results. The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world.

G Proteins Techniques of Analysis David R. Manning, 2020-03-16 Incorporating a bench top format G Proteins Techniques of Analysis covers essential methods with a commitment to those techniques of proven and current utility. It offers an in depth description of protocols together with theory and representative data. It includes expression and functional analysis of G proteins evaluation of covalent modifications and other regulatory phenomena and mapping pathways established among receptors G proteins and effectors. Incorporating contributors from key institutions each contributor offers clear instructions to establish a synthesized concise and consistent approach to each chapter which is beneficial to both students and professionals.

Chemistry and Biology of Synthetic Retinoids Marcia I. Dawson, 2018-01-18 The purpose of this book is to present an overview of advances in both retinal and retinoic acid synthetic chemistry and biology. Chapters are written by research workers who are active in these fields. Emphasis is placed on structure activity relationships. It includes topics of cell differentiation maintenance of cell morphology and vision. This reference contains a special section on assays which were developed to measure retinoid activity. This book is ideal for those interested in the fields of photobiology organic chemistry biological chemistry and nutrition.

Retinoid Therapy W.J. Cunliffe, A.J. Miller, 2012-12-06 The impact of the retinoids in clinical practice has primarily been in dermatology. When Dr Werner Bollag began his basic research and screening programme in the early 1960s the expectation was that the retinoids would have a major impact on oncology. However the laboratory and clinical experiences of Bollag and his colleagues in Switzerland Stuttgart and Orfanos in Germany led to publications on both tretinoin (Tigason) and isotretinoin (Roaccutane) in the years between 1972 and 1976 in the field of dermatology. In fact the first symposium on retinoid research held in Berlin in

1981 was almost entirely dermatological. A year later a retinoid workshop in Iowa was designed to provide a forum for dermatologists from the USA involved in specific protocols investigating oral retinoids. In the UK research into the retinoids began rather later than in Continental Europe or in the USA although Tigason was first marketed here. It was felt in late 1982 that as many dermatologists had relatively little experience with these compounds it would be appropriate to hold an International Symposium on retinoid therapy in the UK. Thus on 16-18 May 1983 in London 37 speakers from 11 countries addressed an audience of 300 mainly UK dermatologists. The scientific organizing committee consisted of but two persons: Dr William Cunliffe of Leeds General Infirmary representing the European Society of Dermatological Research and myself from Roche Clinical Research. The Symposium was held under the auspices of the ESDR and of Roche Products Limited.

Retinal Degenerative Diseases and Experimental Therapy Joe G. Hollyfield, Robert E. Anderson, Matthew M. LaVail, 2007-09-04 To create a forum for scientists and clinicians interested in degenerative retinal diseases we began in 1984 to organize a biennial symposium on Retinal Degeneration as a satellite meeting of the International Congress of Eye Research. The timing and varying location of these meetings provides an important assembly for investigators from throughout the world to convene for presentation of their new findings on the causes and potential therapies for degenerative retinal disorders. The VIII International Symposium on Retinal Degeneration was held from July 28-25 1998 at the Hotel Vier Jahreszeiten in Schluchsee, a small town in the Black Forest of southwestern Germany. Most of the participants in this meeting contributed to this volume and we are appreciative of the efforts of each author in making this publication possible. The research presented at the meeting and described in this proceedings volume reflects a strong emphasis on the molecular genetic approach to understanding these disorders. Several of the papers provide important new insights into the mechanism of photoreceptor degeneration and cell death. A number of the studies are targeted at retarding or reversing the degeneration process. Included for the first time are presentations from all the principal laboratories involved in the field of visual prostheses implant chip technology in which investigations are targeted at restoring vision in eyes that have lost photoreceptor cells. A variety of diagnostic clinical, histopathological and physiological assessments of retinal degeneration in patients are also included.

Receptor Binding Techniques Mary Keen, 1999 This cutting edge collection of step by step experimental protocols demonstrates

Confocal Microscopy Stephen W. Paddock, 2008-02-03

PCR in Bioanalysis Stephen J Meltzer, 2008-02-03 PCR in Bioanalysis offers powerful PCR based protocols and assays in actual use or potential use in clinical medicine and commercial biology. The main focus of the book is on the commercial applications of PCR as opposed to basic research uses. Topics covered include the measurement of hormone levels using PCR, transcription factor isolation, detection of viruses using PCR, detection of tumor contamination of stem cells, evaluation of grafts for tumor cells and more.

Retinoids in Dermatology Ayse Serap Karadag, Berna Aksoy, Lawrence Charles Parish, 2019-10-28 Retinoids are valuable drugs in the dermatologic armamentarium being employed in daily clinical practice. The text provides an in depth

update on the latest thinking on pharmacology clinical use side effects and follow up of retinoid therapy in dermatology it also addresses topics related to retinoid use in special circumstances such as vulnerable populations concomitant surgery and aesthetic procedures

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The background of retinoids Mechanism of action of vitamin A Mechanism of action of topical retinoids Mechanism of action of isotretinoin Mechanism of action of acitretin Mechanism of action of bexarotene Mechanism of action of alitretinoin Effects of retinoids at the cellular level differentiation apoptosis autophagy cell cycle regulation and senescence Effects of retinoids at the systemic level New aspects of isotretinoin teratogenicity Mucocutaneous side effects Ophthalmologic side effects Musculoskeletal side effects Neurologic side effects Psychiatric side effects Gastrointestinal side effects Endocrine and metabolic side effects Other systemic side effects Cardiovascular pulmonary otolaryngorhinologic genitourinary renal and immunologic Retinoids in acne Retinoids in hidradenitis suppurativa acne inversa Retinoids in rosacea Retinoids in hair disorders Retinoids in psoriasis Retinoids in keratinization disorders Retinoids in antiaging therapy Retinoids in other skin diseases Retinoids in lymphoma Retinoids in cutaneous chemoprophylaxis Guide to good clinical practice for vulnerable populations infancy childhood fertile period elderly Retinoids and concomitant surgery Retinoids and concomitant aesthetic procedures Laboratory and clinical follow up Teratogenicity and registry programs Management of vitamin A and retinoid side effects Future and novel unexplored indications of retinoids Published in association with the Journal of Dermatological Treatment

Environmental Toxicology T.W. Moon, T.P. Mommmsen, 2005-02-19 This sixth volume in this established series deals with the biochemical responses of fish to different environmental ecological factors Environmental Toxicology captures vital issues affecting the responses of fish to the chemical surroundings of their environment Chapters included in this volume identify the systems found in fish to deal with xenobiotics hormonal interactions initiated in the presence of these chemicals the unique mechanisms used by fish to adjust to the present chemicals and the new and evolving mixtures of chemicals in their environment Also included is a crucial review of the new methods being applied in fish systems to understand the effects of xenobiotics to fish fitness a key theme in environmental health and critical to the future of fish populations Entirely new topic discussion and most recent volume in the acclaimed series Includes chapters detailed on a cellular level Introduces discussion of pharmaceutical effects on fish

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