

MOLECULAR BIOLOGY INTELLIGENCE UNIT 23

Philippe Collas

Nuclear Envelope Dynamics in Embryos and Somatic Cells



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Nuclear Envelope Dynamics In Embryos And Somatic Cells

A.H. Maddy, J. Robin Harris



Nuclear Envelope Dynamics In Embryos And Somatic Cells:

Nuclear Envelope Dynamics in Embryos and Somatic Cells Philippe Collas, 2012-11-01 This volume provides an exhaustive review of the most current knowledge of the composition architecture and dynamics of the nuclear envelope In contrast to other comprehensive works on cellular membranes in general this book is the first to specifically address the nuclear envelope Experts in the field relate the different domains of the nuclear envelope their biogenesis their composition their mode of targeting to chromosomes and how they dissociate from chromosomes upon cell division A wealth of information from several experimental systems is provided such as dividing somatic cells embryos and nuclear assembly assays in cell free extracts in a wide range of vertebrate and invertebrate organisms ranging from humans to yeast The book also contains up to date reviews on the relationship between mutations in proteins of the nuclear envelope and Emery Dreifuss muscular dystrophy The breadth of topics covered in what may seem to be a field as narrow as the nuclear envelope makes this volume a valuable reference

Intermediate Filament Cytoskeleton M. Bishr Omary, Pierre A. Coulombe, 2004-12-02 Intermediate filaments are a large family of proteins that are the cytoskeletal elements involved in a number of skin liver neuromuscular cardiac eye and hair diseases Intermediate filament genes are regulated in a tissue and cell type specific manner and their polymerized protein products protects the cells and tissue they are part of against a variety of mechanical and nonmechanical stresses This book provides a comprehensive resource of methodology essentials describing a variety of essential tools and assays for studying intermediate filaments The book provides user friendly advice and protocols covering all aspects of intermediate filaments including protein isolation and structure protein and gene regulation relationship to disease and apoptosis and associated proteins Both mammalian and non mammalian systems and animal models are covered making this book a must have for any investigator wishing to study IF genes or their protein products Covers intermediate filaments from crystallography protein chemistry cell and molecular biology microrheology gene regulation to animal models and human disease Practical and user friendly with detailed how to protocols and tricks of the trade Includes detailed tables of useful reagents vendors and web links

Reactivation of the Cell Cycle in Terminally Differentiated Cells Marco Crescenzi, 2002 This volume deals with the most advanced areas of reactivation of the cell cycle in terminally differentiated cells Terminally differentiated cells have long been regarded as irreversibly unable to proliferate However this view is being overturned with great implications for both biological knowledge and potential therapeutic applications The basic science is presented in detail and the potentialities for exploitation in cell replacement therapy and tissue repair are highlighted For the first time large parts of this research field are covered in a single resource contributed by scientists who have given the most to its advancement in recent years This volume will be valuable for young scientists wishing to enter this field and will serve as an authoritative reference for those already working in it

The CDK-Activating Kinase (CAK) Philipp Kaldis, 2003-01-31 This volume aims to extract and summarize all information about

CAK by pointing out commonly accepted facts and unresolved issues It takes the reader from yeast to mammals and describes all areas that CAK is thought to be involved in This volume is designed to serve newcomers to the field as well as specialists any person interested in cell growth signal transduction and cancer will find this a useful tool to own

Ceramide Signaling Anthony H. Futerman, 2002 The volume assembles current information on the role of ceramide as a signalling molecule in 16 chapters written by leading workers in this area Specific attention is given to mechanisms of analysis of ceramide and its biophysical properties on enzymes of ceramide metabolism and down stream targets of ceramide on the cross talk of ceramide signalling with other signalling pathways and on the role of ceramide in neuronal signalling Finally the book closes with a section on the therapeutic implications of ceramide action in the areas of cannabinoid action chemotherapy and atherosclerosis and illustrates the potential medical significance of delineating the roles of ceramide in cell signalling This is the first volume specifically devoted to ceramide signalling and will act as an invaluable resource for basic and medical researchers and graduate students wishing to get a state of the art overview of this rapidly moving field

Nuclear Structure and Function I.B. Zbarsky, 2012-12-06 This collection of 101 short communications submitted by some of the participants at the 11th Nuclear Workshop held in Suzdal USSR 18-23 September 1989 provides a representative survey of the material presented at the Workshop Articles have been submitted by both those who delivered lectures and those who had poster presentations The order of presentation at the Nuclear Workshop is roughly maintained within this proceedings book but the session titles within the scientific program have not been utilized as discrete subdivisions within the book because of the considerable overlap of subject matter The overall sequence is as follows Genome structure Gene Structure and Expression Nucleolar Genes Structure and Proteins Chromatin and Nuclear Granules Nuclear Matrix and Nuclear Proteins Replication and Transcription and finally Nuclear Envelope and Nuclear Cytoplasmic Transport Several articles on Nuclear Lipids are also included stemming from an evening round table discussion on lipids The third Wilhelm Bernhard Lecture was delivered in Suzdal by Professor Harris Busch who can be seen in the photograph above on the left in the presence of Professor Ilya B Zbarsky President of the organizing committee for the 11th Nuclear Workshop Previous Wilhelm Bernhard lecturers have been Ronald H Reeder in Krakow Poland 1985 and Oscar L Miller Jr in Stevensbeek The Netherlands in 1987

Principles of Cloning Jose Cibelli, Ian Wilmut, Rudolf Jaenisch, John Gurdon, Robert Lanza, Michael West, Keith H.S. Campbell, 2013-09-24 Principles of Cloning Second Edition is the fully revised edition of the authoritative book on the science of cloning The book presents the basic biological mechanisms of how cloning works and progresses to discuss current and potential applications in basic biology agriculture biotechnology and medicine Beginning with the history and theory behind cloning the book goes on to examine methods of micromanipulation nuclear transfer genetic modification and pregnancy and neonatal care of cloned animals The cloning of various species including mice sheep cattle and non mammals is considered as well The Editors have been involved in a number of breakthroughs using cloning technique

including the first demonstration that cloning works in differentiated cells done by the Recipient of the 2012 Nobel Prize for Physiology or Medicine Dr John Gurdon the cloning of the first mammal from a somatic cell Drs Keith Campbell and Ian Wilmut the demonstration that cloning can reset the biological clock Drs Michael West and Robert Lanza the demonstration that a terminally differentiated cell can give rise to a whole new individual Dr Rudolf Jaenisch and the cloning of the first transgenic bovine from a differentiated cell Dr Jose Cibelli The majority of the contributing authors are the principal investigators on each of the animal species cloned to date and are expertly qualified to present the state of the art information in their respective areas First and most comprehensive book on animal cloning 100% revised Describes an in depth analysis of current limitations of the technology and research areas to explore Offers cloning applications on basic biology agriculture biotechnology and medicine

Nuclear Pore Complexes and Nucleocytoplasmic Transport - Methods, 2014-05-20 Volume 122 of Methods in Cell Biology describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems including mammalian cells *Xenopus* *C. elegans* yeast The volume enables investigators to analyze nuclear pore complex structure assembly and dynamics to evaluate protein and RNA trafficking through the nuclear envelope and to design in vivo or in vitro assays appropriate to their research needs Beyond the study of nuclear pores and transport as such these protocols will also be helpful to scientists characterizing gene regulation signal transduction cell cycle viral infections or aging The NPC being one of the largest multiprotein complexes in the cell some protocols will also be of interest for people currently characterizing other macromolecular assemblies This book is thus designed for laboratory use by graduate students technicians and researchers in many molecular and cellular disciplines Describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems mammalian cells *Xenopus* *C. elegans* yeast Chapters are written by experts in the field Cutting edge material

Somatic Cell Nuclear Transfer Peter Sutovsky, 2007-12-22 When I was first approached to edit the present volume I was somewhat reluctant to undertake this humbling task because most of my own scientific expertise is derived from studies of mammalian fertilization rather than somatic cell nuclear transfer SCNT However in the last ten years I was very fortunate to train and collaborate and communicate with a number of distinguished donors many of whom kindly agreed to contribute to the present volume This experience made me appreciate that the understanding of cellular and molecular events during and after SCNT is deeply rooted in our knowledge of fertilization of mammalian ovum by the spermatozoon to which I prefer to refer to as natural fertilization not to say that SCNT should be regarded as unnatural fertilization Unique cellular events arising from SCNT have no parallel in natural fertilization and early pre implantation development The list includes the requirement of donor cell nuclear remodeling disposal of donor cell organelles the possibility of heteroplasmy i.e. presence of mixed mitochondrial genomes and altered mode of oocyte activation Thanks to seminal contributions of my distinguished colleagues the present volume reviews the progress of SCNT technology

in major mammalian species including mouse pig and cattle while at the same time parallels can be drawn and distinctions made between the cellular and molecular basis of nuclear transfer and fertilization

The Centrosome Heide Schatten, 2012-07-13 The Centrosome Cell and Molecular Mechanisms of Functions and Dysfunctions in Disease includes chapters on classic and modern aspects of centrosome research to cover topics of current interest that have not been covered in depth in most books on the market so far It extends on previous topics and includes new exciting aspects of centrosome research focused on primary cilia and their dysfunctions that are implicated in numerous diseases Each chapter will be written by experts in their fields who will contribute their unique expertise in specific research fields and include cell and molecular details that are important for the specific subtopics The book will be comprehensive concise and will include reviews of key topics in the field Cutting edge new information will be balanced with background information that will be readily understandable for the newcomer and the experienced centrosome researcher alike

Comparative Reproductive Biology Heide Schatten, Gheorghe M. Constantinescu, 2008-06-02 When considering the physiological systems of the body the degree of species variation within the reproductive system compared to other systems is remarkable Furthermore it is essential that researchers educators and students alike remain aware of the fundamental comparative differences in the reproductive biology of domestic species Written by renowned scientists in their respective fields Comparative Reproductive Biology is a comprehensive reference on the reproductive systems of domestic species The book offers both broad and specific knowledge in areas that have advanced the field in recent years including advances in cell and molecular biology applied to reproduction transgenic animal production gender selection artificial insemination embryo transfer cryobiology animal cloning and many others This seminal text includes topics in animal reproduction that are usually only found as part of other books in animal science such as anatomy histology physiology radiology ultrasonography and others Comprehensive reference of the reproductive systems of domestic species Written by a team of top researchers Richly illustrated throughout including 12 pages of color images

Membrane Biogenesis A.H. Maddy, J. Robin Harris, 2013-11-11 Scientific reviews are now of two complementary types short very up to date articles as are found in the Trends series and the more traditional longer reviews which are more comprehensive but take longer to publish The Subcellular Biochemistry series belongs to the latter category where a number of reviews on a broad topic are collected together in the one volume It has been the aim of this volume to summarize the present state of knowledge of membrane assembly It is appreciated that some relevant topics have not been included and an editor's selection is restricted by the many calls on potential authors who are unable to meet all requests made to them The absence of a discussion of the roles of lipids is however a reflection of the fact that a recent volume in this series edited by Dr H. Hilderson has been devoted to this subject Vol 16 Intracellular Transfer of Lipid Molecules and readers are recommended to this source

Atlas of Human Embryo Development Nicolas Plachta, Stephanie Bissiere, 2025-08-21 This important and exciting atlas shows with unprecedented resolution the

development of the human embryo from fertilization to the end of pre implantation development Technology can now capture dynamic changes at the subcellular level that drive embryogenesis and development allowing the whole team in reproductive medicine to move on from traditional imaging of fixed specimens or classic light microscopy to seeing as if in 3D and real time the process of fertilization and development of the human embryo and of developmental defects The human embryo research documented here will be of paramount importance for reproductive health offering the chance to advance fertility treatments genetic disease prevention and our understanding of early human development

Knobil and Neill's Physiology of Reproduction Tony M. Plant, Anthony J. Zeleznik, 2014-11-15 The Fourth Edition of Knobil Neill continues to serve as a reference aid for research to provide the historical context to current research and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction In the decade since the publication of the last edition the study of reproductive physiology has undergone monumental changes Chief among these advances are in the areas of stem cell development signaling pathways the role of inflammation in the regulatory processes in the various tissues and the integration of new animal models which have led to a greater understanding of human disease The new edition synthesizes all of this new information at the molecular cellular and organismal levels of organization and present modern physiology a more understandable and comparative context The Fourth Edition has been extensively revised reflecting new fundamental advancements in this rapidly advancing field Provides a common language for researchers across the fields of physiology endocrinology and biology to discuss their understanding of reproduction Saves academic researchers time in quickly accessing the very latest details on reproductive physiology as opposed to searching through thousands of journal articles

Journal of Cell Science ,2004 **DNA Replication Controls: Volume 2** Eishi Noguchi, 2018-04-27 This book is a printed edition of the Special Issue DNA Replication Controls that was published in *Genes*

Cumulated Index Medicus ,1970 *Current Topics in Developmental Biology* ,1996-09-18 Volume 34 continues the series tradition of timely review and incisive analyses of key research in developmental biology Not only valuable to researchers at the forefront of animal and plant development this volume is also a friendly introduction to students and professionals who are curious about current topics in cellular and molecular mechanisms in development

Annual Plant Reviews, Plant Nuclear Structure, Genome Architecture and Gene Regulation David Evans, Katja Graumann, John A. Bryant, 2013-03-27 This timely volume brings together expert reviews of the recent significant advances in our knowledge and understanding of the organisation of the higher plant nucleus and in particular in the relationship between nuclear organisation and the regulation of gene expression Rapid progress has been made in a number of key areas over the last five years including description and characterization of proteins of the nuclear envelope and nuclear pore complex novel insights into nucleoskeletal structures as well as developments related to chromatin organization function and gene expression These advances open the way for new research into areas such as stress tolerance plant pathogen interactions and ultimately crop improvement and food security

Continued research into plant nuclear structure genome architecture and gene regulation also enriches our understanding of the origin and evolution of the nucleus and its envelope Edited by world class researchers in plant cell biology and comprising contributions from internationally renowned academics this latest volume in the prestigious Annual Plant Reviews series brings together a wealth of knowledge in the burgeoning field of plant nuclear structure and genetics Annual Plant Reviews Volume 46 Plant Nuclear Structure Genome Architecture and Gene Regulation is a vital resource for advanced students researchers and professionals in plant science and related disciplines Libraries in all research establishments where plant science biochemistry molecular biology genetics and genomics and agricultural science are taught and studied will find this excellent volume an essential addition to their shelf **Stem Cell Bioengineering** Biju Parekkadan, Martin

Yarmush, 2009 In stem cell research there are several key methods that once mastered can be extremely powerful These methods enable you to rigorously test hypotheses compare results to gold standards and may even spur improvements to existing protocols This book describes numerous methods to derive manipulate target and prepare stem cells for clinical use The methods described here help you derive and test human embryonic stem cells analyze bone marrow stem cell function in vitro and in vivo image a stem cell transplant cryopreserve stem cells and differentiate stem cells using microscale tec

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