

Methods in Molecular Biology™

VOLUME 241

Cell Cycle Checkpoint Control Protocols

Edited by
Howard B. Lieberman



HUMANA PRESS

Cell Cycle Checkpoint Control Protocols Methods In Molecular Biology

Willis X. Li



Cell Cycle Checkpoint Control Protocols Methods In Molecular Biology:

Cell Cycle Checkpoint Control Protocols Howard B. Lieberman, 2008-02-02 The field of cell cycle regulation is based on the observation that the life cycle of a cell progresses through several distinct phases G1 M S and G2 occurring in a well defined temporal order Details of the mechanisms involved are rapidly emerging and appear extraordinarily complex Furthermore not only is the order of the phases important but in normal eukaryotic cells one phase will not begin unless the prior phase is completed successfully Checkpoint control mechanisms are essentially surveillance systems that monitor the events in each phase and assure that the cell does not progress prematurely to the next phase If conditions are such that the cell is not ready to progress for example because of incomplete DNA replication in S or DNA damage that may interfere with chromosome segregation in M a transient delay in cell cycle progression will occur Once the inducing event is properly handled for example DNA replication is no longer blocked or damaged DNA is repaired cell cycle progression continues Checkpoint controls have recently been the focus of intense study by investigators interested in mechanisms that regulate the cell cycle Furthermore the relationship between checkpoint control and carcinogenesis has additionally enhanced interest in these cell cycle regulatory pathways It is clear that cancer cells often lack these checkpoints and exhibit genomic instability as a result Moreover several tumor suppressor genes participate in checkpoint control and alterations in these genes are associated with genomic instability as well as the development of cancer *Cell Cycle Checkpoints* Willis X. Li, 2011-08-30 Cell cycle checkpoints control the fidelity and orderly progression of eukaryotic cell division By controlling the orderly progression of critical cell cycle events such as DNA replication and chromosome segregation and ensuring proper repair of damaged DNA cell cycle checkpoints function to ensure genome integrity Mechanisms of checkpoint controls are not only the research focus of investigators interested in mechanisms that regulate the cell cycle but are also the interests of researchers studying cancer development as it is increasingly clear that loss of cell cycle checkpoints which leads to genomic instability as a result is a hallmark of tumorigenesis *Cell Cycle Checkpoints Methods and Protocols* provides detailed descriptions of methodologies currently employed by researchers in the field including those commonly used in the mammalian yeast *C. elegans*, *Drosophila* and *Xenopus* model systems Each chapter describes a specific technique or protocol such as a method to induce cell cycle checkpoints in a particular model system to synchronize a population of cells to allow observations of cell cycle progression to identify genes involved in checkpoint regulation and to study particular protein components of cell cycle checkpoint pathways Written in the highly successful *Methods in Molecular Biology*™ series format chapters contain introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible *Cell Cycle Checkpoints Methods and Protocols* seeks to serve both professionals and novices with its well honed methodologies in an effort to further our knowledge of this essential field **Cell Cycle Control** Anna Castro, Benjamin

Lacroix,2024-02-23 This detailed volume collects techniques to study the highly regulated cell cycle process Beginning with chapters investigating these processes and assessing how cells respond when these complicated pathways are simplified by using synthetic biology and in vitro reconstitutions the book continues by exploring how cells sense and respond to environmental conditions different model systems and cellular types used to visualize cellular architecture during cell division as well as innovative single cell microscopy techniques to highlight the heterogeneity of the cell population with respect to cell cycle progression Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical **Cell Cycle Control Methods and Protocols** serves as an ideal guide for researchers attempting to elucidate this vital area of cell biology

Cell Cycle Control Tim Humphrey,Gavin Brooks,2008-02-04 The fundamental question of how cells grow and divide has perplexed biologists since the development of the cell theory in the mid 19th century when it was recognized by Virchow and others that all cells come from cells In recent years considerable effort has been applied to the identification of the basic molecules and mechanisms that regulate the cell cycle in a number of different organisms Such studies have led to the elucidation of the central paradigms that underpin eukaryotic cell cycle control for which Lee Hartwell Tim Hunt and Paul Nurse were jointly awarded the Nobel Prize for Medicine and Physiology in 2001 in recognition of their seminal contributions to this field The importance of understanding the fundamental mechanisms that modulate cell division has been reiterated by relatively recent discoveries of links between cell cycle control and DNA repair growth cellular metabolism development and cell death This new phase of integrated cell cycle research provides further challenges and opportunities to the biological and medical worlds in applying these basic concepts to understanding the etiology of cancer and other proliferative diseases

Cell Cycle Control Eishi Noguchi,Mariana C. Gadaleta,2014 Annotation A collection of new reviews and protocols from leading experts in cell cycle regulation **Cell Cycle Control Mechanisms and Protocols Second Edition** presents a comprehensive guide to recent technical and theoretical advancements in the field Beginning with the overviews of various cell cycle regulations this title presents the most current protocols and state of the art techniques used to generate latest findings in cell cycle regulation such as protocols to analyze cell cycle events and molecules Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible **Cell Cycle Control Mechanisms and Protocols Second Edition** will be a valuable resource for a wide audience ranging from the experienced cell cycle researchers looking for new approaches to the junior graduate students giving their first steps in cell cycle research

Germ Cell Protocols Heide Schatten,2008-02-03 All sexually reproducing organisms produce primordial germ cells a small population of cells that differentiate into gametes of either sex

and carry to potency an ability to develop into an entire new organism The study of germ cells has undergone enormous advances in recent years and has entered into an explosive phase of new discoveries with the introduction of transgenic technologies and nuclear cloning Basic knowledge and techniques developed for lower vertebrate and invertebrate systems have facilitated the study of higher vertebrates including humans Many experiments that have first been performed on lower vertebrates provided the tools and strategies that could later be applied to other less readily available mammalian systems The discovery of centrosomes in ascidians and sea urchin eggs now benefits studies of fertility and infertility in mammals External in vitro fertilization now a common technique in assisted fertilization has only been possible as a result of numerous studies in lower systems in which external fertilization is natural Egg activation first explored in sea urchin and ascidian eggs now benefits techniques designed to increase cloning efficiency in farm and domestic animals Gene manipulations and molecular methods have added to the possibilities of producing live offspring with enormous biomedical ecological and economic implications The two volumes on germ cells combine techniques in a variety of different systems we have selected those systems that have provided landmarks in advancing our knowledge on germ cells

Protein Nanotechnology Tuan Vo-Dinh, 2008-02-04 Leading experts in nanobiotechnology comprehensively review the most recent advances in instrumentation and methodology as well as their applications in genomics and proteomics The authors provide a wide variety of techniques and methods for dealing with protein functions and structures at the nanoscale level including nanostructured systems nanomaterials carbon nanotubes and nanowires optical nanosensors and nanoelectrodes Among the highlights are techniques for the in vivo tracking of biochemical processes using fluorescent molecular probes and nanosensors and the exploration of biochemical processes and submicroscopic structures of living cells at unprecedented resolutions using near field optics Also discussed is the development of nanocarrier methodology for the targeted delivery of drugs whose shells are conjugated with antibodies for targeting specific antigens

Mammalian Artificial Chromosomes Vittorio Sgaramella, Sandro Eridani, 2008-02-02 In 1996 we organized a workshop inter alia at the National Research Council in Milan under the generous sponsorship of the European Science Foundation On that occasion a small group of investigators convened from many countries and presented early evidence of the possibility of assembling basic units of mammalian chromosomes into artificial constructs or indeed reducing the relevant components to more manageable dimensions and defining constitution Progress in the following years has been slow but steady Many scientists who took part in the workshop have since been engaged in active and productive research It goes to the credit of Humana Press to have realized the need for a book on artificial chromosomes that aims to provide better tools to all scientists committed to this field who are confronted with very difficult technical problems We have strived to cover in Mammalian Artificial Chromosomes Methods and Protocols all relevant areas of artificial chromosome research from basic genetics to daring attempts to build new tools for genetic therapy We are of course grateful to the authors who have accepted the task of describing the technical steps and pitfalls

that can be encountered in their research Rarely has a very delicate methodology been presented with such meticulous care We have been helped in this enterprise by the excellent librarian of the LITA Institute in Segrate Italy Ms Claudia Piergigli whom we thank warmly Ms Handbook of ELISPOT Alexander E. Kalyuzhny, 2008-02-02 In this first book dedicated entirely to the ELISPOT a critical enzyme linked immunospot assay used widely in biomedical research recognized experts with first hand experience detail how to design perform and analyze these assays The readily reproducible techniques they provide cover a wide variety of topics including the use of membrane backed plates the standardization and validation procedures the removal of cells from ELISPOT plates cell separation techniques and the quantification of ELISPOT data There are also numerous ELISPOT applications involving animal models human cells measles multiple sclerosis immune responses multicytokine detection systems and immunocytochemistry Highlights include dual color and multiplex ELISPOT assays use of the ELISPOT assay on feline lymphocytes standardization of the ELISPOT procedure and combining the ELISPOT assay with immunohistochemistry **Calcium Signaling Protocols** David G. Lambert, 2008-02-04 In the first edition of Calcium Signaling Protocols I began by writing The regulation of intracellular Ca is a common theme presented in many papers over the last 20 or so years and the description of the Ca sensitive indicator dye fura 2 in 1985 resulted in a massive increase in these types of studies This statement is as true in 2005 as it was in 1999 but 20 or so years is now 30 years There has been some reorganization of the volume such that there are now 22 chapters including five new ones all written by experts in their field These new chapters include use of the FlexStation and electrophysiological measurement of Ca channel activity The book is broken into six parts Part I is a general coverage of basic theory and the simplest use of fluorescent indicators Part II covers specialist measurement systems and Part III covers measurement of Ca channel activity Assessment of release of stored Ca is covered in some detail in Part IV with Parts V and VI covering specialist measurement techniques and Ca sensitive targets Putting a book like this together even as a second edition takes time and I am again indebted to the individual authors for their help and patience I am also very grateful to Professor John M Walker the series editor for his continued help and advice over the course of this project

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