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# **Chromosome Structure And Function**

Rudi Appels, J. Perry Gustafson

# **Chromosome Structure And Function:**

Chromosome Structure and Function Rudi Appels, J. Perry Gustafson, 2012-12-06 A Historical Perspective on the Study of Chromosome Structure and Function R Appels Division of Plant Industry CSIRO P O Box 1600 A C T AUSTRALIA Modern physical science gives us no model to explain the re duplication of the gene string in each cell generation or to explain the production of effective quantities of specific enzymes or other agents by specific genes. The precise pairing and inter change of segments by homologous gene strings at meiosis also suggest novel physical properties of this form of matter Stadler 1954 The very strong influence of reductionism in the history of understanding chromosome structure and function is evident in the above quotation from Stadler's 1954 paper The gene Earlyob servations on the constancy of the cytological appearance of chromo somes and their regular behaviour in cell division led to specula tion on their biological importance As genetics became more refined in the early decades of the 20th century the genes on a string model of chromosomes developed and greater emphasis was placed on the further dissection of these structures As a result in the 1980 s the reductionist approach is reaching a crest as extensive regions of the genetic material are being sequenced Chromosome Structure and Function Andreas Houben, 2009 Our understanding of the function and structure of chromosomes and their interrelationship has grown in recent years The chapters in this issue describe the advances that have been made possible by combining microscope techniques with sophisticated biochemical and genetic approaches to unlock the secrets of chromosomes The authors look at many aspects of chromosome biology such as protein DNA and RNA composition of chromosomes defined chromosome structures unusual chromosome structures and specialized chromosomes and microscope tools for chromosome analysis Chromosome Structure and Function will be an invaluable resource for undergraduate and postgraduate students in fields such as plant and animal sciences genetics and molecular biology In fact any student teacher or researcher interested in chromosome biology will find this special issue indispensable Human Chromosomes Eeva Therman, Millard Susman, 2012-12-06 This book like the two previous editions was written as an introduction to human cytogenetics but it could also be used as a text for a general cytogenetics course since chromosome structure and behavior are similar in all eukaryotes Many examples in this book are from organisms other than humans reflecting our combined backgrounds of molecular and bacterial genetics and plant and animal cytogenetics In the rapidly expanding field of human cytogenetics certain subjects for instance clinical and cancer cytogenetics are now covered in recently published thousand page volumes In this book such subjects are presented only in outline The enormous growth of information has also made the choice of topics and of examples to illustrate them even more arbitrary and subjective than in the previous editions Apart from a few pages here and there the text has been rewritten Major parts especially those on molecular matters have been added This book would not exist without the dedicated participation of Mrs Barbara Susman She has been involved in the project from the planning stages to the final proofreading She has done the extensive literature research designed most of the tables and

illustrations and edited and typed the text For discussions and suggestions we are indebted to many colleagues We wish especially to mention Drs Lassi Alvesalo Evelyn M Kuhn and Renata Laxova who have critically read selected parts of the book and Dr Carter Denniston who has read the whole text Molecular Biology of Chromosome Function Kenneth W. Adolph, 2012-12-06 Chromosomes have structure determined by the interactions of proteins with DNA and chromosomes have functions in particular replication of DNA and transcription of messenger RNA Chromosome structure and function are not separate topics since chromosome organization pro foundly influences the activity of the genome in replication and transcription This is especially clear for higher cells including human cells in which chromatin fibers are created by the binding of histone proteins to the DNA and folding of the fibers produces mitotic chromosomes and interphase nuclei The intricate organization of DNA in higher cells is now recognized as being closely involved with genome activity Many fundamental results have originated from studies of bacterial and viral systems which have been systems of choice because of their less complex life cycles The processes of replication and transcription show differences between the higher and simpler systems e g different enzymes and protein factors are involved But the parallels are as striking as the differences in detail Even for bacteria and viruses a full understanding of these processes will require integrating the results of molecular biology with those of structural biology and cell biology Three important subjects are covered in this volume DNA replication and recombination gene transcription and chromosome organization The sections dealing with replication and transcription examine recent results obtained by applying the techniques of molecular biology and biochemistry Eukaryotic prokaryotic and viral systems are discussed **Chromosome Structure and Function** Michael S. Risley,1986 **Chromosome Structure and Function** R.C. Sobti, G. Obe, R. S. Athwal, 2002-07-31 This volume is a compilation of twenty articles written by scientists from different parts of the world dealing with various aspects of repetitive sequences in chromosomes telomeric sequences and their maintenance by telomerase chromatin structure and gene activation centrometric complexity in holocentric chromosomes translocation frequencies in X and Y chromosomes and evolution of DNA repair mechanisms cytogenetics of certain groups of animals viz lepidoptera fishes and birds and radiosensitivity as an indicator of predisposition to breast cancer The molecular genetics of various cancers viz gastrointestinal lung prostate and bladder is also discussed Structure and Function of Eukaryotic Chromosomes Wolfgang Hennig, 2013-06-29 This book presents an overview of various aspects of chromosome research written by leading experts of the respective fields combining classic and recent molecular biological results The variety and comprehensiveness make it a handbook of chromosome research for all scientists teachers and graduate students interested in this field Dieses Buch fa t die unterschiedlichen Aspekte der Chromosomenforschung in Beitr gen von f hrenden Wissenschaftlern zusammen wobei die klassischen Erkenntnisse mit neuesten Forschungsdaten zu einem umfassenden berblick ber das Gebiet kombiniert werden Chromosome Structure and Function Rudi Appels, J. Perry Gustafson, 1988-07-31 A Historical Perspective on the Study of

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assortment This book will be of interest to developmental biologists and embryologists **International Symposium on** Chromosome Structure and Function Genes and Chromosomes Structure and Function Ruby Marie Valencia, 1965 International Symposium on Genes and Cold Spring Harbor Symposia on Quantitative Biology, 1974 Chromosomes--Structure and Function Juan Ignacio Valencia, Rhoda Frank Grell, Rhoda F. Grell, 1965 Chromatin and Chromosome Structure Hsueh Jei Li, 2012-12-02 Chromatin and Chromosome Structure consists of chapters that reflect a 1975 seminar course and the reported observations after the session The seminar is organized for the benefit of both faculty and students in the Biology Ph D Program of the City University of New York This book begins with a presentation of the conformational studies of histones It then describes the histone DNA interactions and the subunits isolated either from chromatin or from nuclei It also explains the post synthetic modifications of histone structure Furthermore the book talks about the chemistry and function of nuclear nonhistone proteins low molecular weight nuclear RNA and polytene chromosome structure The regulation of gene expression in chick oviduct model system and the main features of lampbrush chromosomes are shown as well Aside from the students and faculty of the above mentioned university this compilation will be invaluable as well to other undergraduate and graduate students professors and researchers It will also be a good reference to those who are specializing in chromatin and chromosome studies Research Awards Index ,1979 Immunological Approaches to Chromatin and Chromosome Structure and Function Michael Bustin, 1979

Chromosome Structure and Its Relation to the Chromosome Cycle Berwind Peterson Kaufmann,1926 "The" Relationship Between Chromosome Structure and Function in the Eukaryotic Genome Theodore E. Whitmore,1989

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