

Progress in Molecular and Subcellular Biology

Đurđica Ugarković
Editor

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Centromere Structure And Evolution Progress In Molecular And Subcellular Biology

**Carlos Arturo Navas, José Eduardo
Carvalho**



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Centromere Durdica Ugarkovic, 2009-06-12 The centromere is a chromosomal region that enables the accurate segregation of chromosomes during mitosis and meiosis. It holds sister chromatids together and through its centromere DNA protein complex known as the kinetochore binds spindle microtubules to bring about accurate chromosome movements. Despite this conserved function, centromeres exhibit dramatic difference in structure, size and complexity. Extensive studies on centromeric DNA revealed its rapid evolution, resulting often in significant difference even among closely related species. Such a plasticity of centromeric DNA could be explained by epigenetic control of centromere function, which does not depend absolutely on primary DNA sequence. According to the epigenetic centromere concept, which is thoroughly discussed by Tanya Panchenko and Ben Black in Chap 1 of this book, centromere activation or inactivation might be caused by modifications of chromatin. Such acquired chromatin epigenetic modifications are then inherited from one cell division to the next. Concerning centromere specific chromatin modification, it is now evident that all centromeres contain a centromere specific histone H3 variant CenH3, which replaces histone H3 in centromeric nucleosomes and provides a structural basis that epigenetically defines centromere and differentiates it from the surrounding chromatin. Recent insights into the CenH3 presented in this chapter add important mechanistic understanding of how centromere identity is initially established and subsequently maintained in every cell cycle.

Centromere Đurđica Ugarković, 2009-08-29 The centromere is a chromosomal region that enables the accurate segregation of chromosomes during mitosis and meiosis. It holds sister chromatids together and through its centromere DNA protein complex known as the kinetochore binds spindle microtubules to bring about accurate chromosome movements. Despite this conserved function, centromeres exhibit dramatic difference in structure, size and complexity. Extensive studies on centromeric DNA revealed its rapid evolution, resulting often in significant difference even among closely related species. Such a plasticity of centromeric DNA could be explained by epigenetic control of centromere function, which does not depend absolutely on primary DNA sequence. According to the epigenetic centromere concept, which is thoroughly discussed by Tanya Panchenko and Ben Black in Chap 1 of this book, centromere activation or inactivation might be caused by modifications of chromatin. Such acquired chromatin epigenetic modifications are then inherited from one cell division to the next. Concerning centromere specific chromatin modification, it is now evident that all centromeres contain a centromere specific histone H3 variant CenH3, which replaces histone H3 in centromeric nucleosomes and provides a structural basis that epigenetically defines centromere and differentiates it from the surrounding chromatin. Recent insights into the CenH3 presented in this chapter add important mechanistic understanding of how centromere identity is initially established and subsequently maintained in every cell cycle.

Hydrolases, 2022-06-15 This book gives a current review of the links between the structure and function of hydrolases and ligases, as well as ideas for better using these critical enzymes. The book is split into two sections: Cleavage and Ligases. These enzymes are the biggest and most varied family of enzymes.

allowing researchers to investigate the structural variety that underpins their different biological roles In light of recent scientific advances there is a desire to examine and update our knowledge of these enzymes functional and structural changes

Function and Evolution of Repeated DNA Sequences Guy-Franck Richard,2024-01-31 The genome of a living being is composed of DNA sequences with diverse origins Beyond single copy genes whose product has a biological function that can be inferred by experimentation certain DNA sequences present in a large number of copies escape the most refined approaches aimed at elucidating their precise role The existence of what 20th century geneticists had already perceived and wrongly described as junk DNA was confirmed by the sequencing of the first complex genomes including that of Homo sapiens A large part of what defines a living thing is not unique but repeated sometimes a very large number of times increasing in complexity with successive duplications and multiplication Understanding and defining the many functions of this myriad of repeated sequences as well as their evolution through natural selection has become one of the major challenges for 21st century genomics

XXXXXXXXXXXXXXXXXXXX ,2008

Centromeres and Kinetochores Ben E. Black,2017-08-23 This book presents the latest advances concerning the regulation of chromosome segregation during cell division by means of centromeres and kinetochores The authors cover both state of the art techniques and a range of species and model systems shedding new light on the molecular mechanisms controlling the transmission of genetic material between cell divisions and from parent to offspring The chapters cover five major areas related to the current study of centromeres and kinetochores 1 their genetic and epigenetic features 2 key breakthroughs at the molecular proteomic imaging and biochemical level 3 the constitutive centromere proteins 4 the role of centromere proteins in the physical process of chromosome segregation and its careful orchestration through elaborate regulation and 5 intersections with reproductive biology human health and disease as well as chromosome evolution The book offers an informative and provocative guide for newcomers as well as those already acquainted with the field

Organisation of Chromosomes ,2013-04-05 Published continuously since 1944 the Advances in Protein Chemistry and Structural Biology serial has been a continuous essential resource for protein chemists Covering reviews of methodology and research in all aspects of protein chemistry including purification expression proteomics modeling and structural determination and design each volume brings forth new information about protocols and analysis of proteins while presenting the most recent findings from leading experts in a broad range of protein related topics Covers reviews of methodology and research in all aspects of protein chemistry Brings forth new information about protocols and analysis of proteins while presenting the most recent findings from leading experts in a broad range of protein related topics

Maternal Effect Genes in Development ,2020-06-24 Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by one or more members of an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the

Current Topics in Developmental Biology series Includes the latest information on maternal effect genes in development

Molecular Biomineralization Werner E. G. Müller, 2011-08-30 The concept of biomineralization signifies mineralization processes that take place in close association with organic molecules or matrices The awareness that mineral formation can be guided by organic molecules notably contributed to the understanding of the formation of the inorganic skeletons of living organisms Modern electron microscopic and spectroscopic analyses have successfully demonstrated the participation of biological systems in several mineralization processes and prominent examples include the formation of bio silica in diatoms and sponges This insight has already made the application of recombinant technology for the production of valuable inorganic polymers such as bio silica possible This polymer can be formed by silicatein under conditions that cannot be matched by chemical means Similarly the efforts described in this book have elucidated that certain organisms bacteria in deep sea polymetallic nodules and coccoliths in seamount crusts are involved in the deposition of marine minerals Strategies have already been developed to utilize such microorganisms for the biosynthesis and bioleaching of marine deposits Moreover studies reveal that bio polymers enhance the hydroxyapatite formation of bone forming cells and alter the expression of important regulators of bone resorption suggesting a potential for bone regeneration and treatment prevention of osteoporosis

miRNA Regulation of the Translational Machinery Robert E. Rhoads, 2009-10-20 This book is dedicated to understanding how miRNAs affect translation It includes chapters representing work in plants and *Caenorhabditis elegans* the biological systems that originally led to the discovery of small interfering RNAs

The British National Bibliography Arthur James Wells, 2009

Long Non-Coding RNAs Durdica Ugarkovic, 2011-02-01 Long non coding RNAs lncRNAs tentatively defined as ncRNAs of more than two hundred nucleotides in length are characterized by the complexity and diversity of their sequences and mechanisms of action Based on genome wide studies more than 3 300 of them exist but to date only the limited number of functional lncRNAs have been identified and characterized Nonetheless lncRNAs have emerged as key molecules involved in the control of transcriptional and posttranscriptional gene regulatory pathways They take part in the recruitment of chromatin modifying complexes and regulate splicing localization stability and translation of the target mRNAs This book provides an overview of the rapidly advancing field of long ncRNAs describing the epigenetic and non epigenetic mechanisms by which they regulate various biological functions in model systems from yeast to mammals The role of ncRNAs in sex chromosome dosage compensation in flies and mammals is described as well as their role in centromere and telomere biology Long non coding RNAs involved in environmental stress response and development are presented and their mechanisms of action discussed

Aestivation Carlos Arturo Navas, José Eduardo Carvalho, 2010-01-12 Numerous animal species live in environments characterized by a seasonal reduction in the availability of water which often but not always occurs when temperatures are highest For many such animals survival during the toughest season requires spending long periods of time in a rather inactive state known as aestivation But aestivation is

much more than remaining inactive Successful aestivation requires the selection of a proper microhabitat variable degrees of metabolic arrest and responsiveness to external stimuli the ability to sense the proper time of year for emergence the preservation of inactive tissue and much more So aestivation involves a complex collection of behaviors ecological associations and physiological adjustments that vary across species in their type magnitude and course This book seeks to explore the phenomenon of aestivation from different perspectives and levels of organization ranging from microhabitat selection to genetic control of physiological adjustments It brings together authors from across the world working on different systematic groups approaches and questions but who are all ultimately working to better understand the complex issue of aestivation

Bibliography of Agriculture ,1974 **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),1990 The Proceedings of the National Academy of Sciences PNAS publishes research reports commentaries reviews colloquium papers and actions of the Academy PNAS is a multidisciplinary journal that covers the biological physical and social sciences **Genetics Abstracts** ,2001 **Index to Scientific Reviews** ,1983 *Satellite DNAs in Physiology and Evolution* Đurđica Ugarković,2021-08-13 This book gives a comprehensive overview of the unique roles that non coding repetitive elements such as satellite DNAs play in different physiological and evolutionary processes It presents the gene regulatory aspect of satellite DNAs in different model systems including mammals insects and plants In addition evolutionary aspects of activation of satellite DNAs in terms of transcription and proliferation are highlighted revealing the role of satellite DNAs in the process of adaptation to changing environment and in the speciation process Finally the book discusses satellite DNA activation during pathological transformation and the mechanisms by which they affect disease progression Namely some satellite DNAs promote the oncogenic processes by affecting genome epigenetic regulation as well as genome integrity Readers get a full overview of the latest research on satellite DNA *Advances in Centromere Research and Application: 2011 Edition* ,2012-01-09 *Advances in Centromere Research and Application 2011 Edition* is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Centromere in a concise format The editors have built *Advances in Centromere Research and Application 2011 Edition* on the vast information databases of ScholarlyNews You can expect the information about Centromere in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Advances in Centromere Research and Application 2011 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Advances in Centromere Research and Application: 2012 Edition* ,2012-12-26 *Advances in Centromere Research and Application 2012 Edition* is a ScholarlyBrief that delivers timely authoritative comprehensive and

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