

Progress in Molecular and Subcellular Biology

P. Jeanteur
Editor

RNA Trafficking and Nuclear Structure Dynamics

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RNA Trafficking and Nuclear Structure Dynamics Philippe Jeanteur, 2007-11-03 This volume explores nuclear structure and trafficking involving or relevant to RNA and RNPs Topics include advances and current problems in the structural organization of different subnuclear compartments Cajal bodies and gems speckles containing splicing factors and PML bodies characteristic of ProMyelocytic leukemia The book also describes the dynamic aspects of RNA trafficking and the latest technologies for live cell imaging of mRNA *Biosilica in Evolution, Morphogenesis, and Nanobiotechnology* Werner E. G. Müller, Mikhael A. Grachev, 2009-02-07 Lake Baikal is the oldest deepest and most voluminous lake on Earth comprising one fifth of the World's unfrozen fresh water It hosts the highest number of endemic animals recorded in any freshwater lake Until recently it remained enigmatic why such a high diversity evolved in the isolated Lake Baikal Focusing on the sponges phylum Porifera as an example some answers are provided to fundamental questions on evolutionary forces The characteristic feature of these animals is that they form their polymeric silicic acid skeleton enzymatically This process is explored using modern molecular biological and cellular biological techniques to outline strategies to fabricate novel materials applicable in biomedicine and nanooptics *Molluscs* Guido Cimino, Margherita Gavagnin, 2007-02-03 Marine molluscs are very promising candidates for a wide range of biotechnological applications For example they possess analgesic drugs more potent than morphine and very effective anticancer agents The present book gives an up to date overview of the main classes of bioactive compounds from molluscs moving from ecological observations to chemical characterization to biosynthesis to large scale synthesis and to pharmacological applications A truly outstanding international panel of experts from all continents provides complete coverage of the most stimulating topics related to molluscs This knowledge of their history and current studies provides an open door to the future **Echinodermata** Valeria Matranga, 2005-10-24 Members of the phylum Echinodermata are among the most familiar marine invertebrates Forms such as the sea star have become virtually a symbol of sea life Used in ancient oriental medicine as a source of bioactive compounds sea cucumbers sea stars and sea urchins are now used for the extraction and purification of cytotoxic haemolytic antiviral antifungal antifouling antimicrobial and even anti tumoural activities In addition of the five extant classes sea urchins and sea cucumbers are important economic resources for current fishery and aquaculture Molecular and cell biological techniques described in this book are on the one hand indicative of the improvements made over the years and on the other stress the need of their further exploitation for the sustainable production of bioactive compounds and their application in biomedicine *Viruses and Apoptosis* Covadonga Alonso, 2013-04-18 The pathogenesis of viral infections involves dynamic interactions between viruses and hosts which can result in different outcomes including cell death elimination of the virus or latent infection Viruses deliver genomes and proteins with signaling potential into target cells resulting in growth proliferation and apoptosis Viral infection modifies key cell regulatory elements involved in apoptotic pathways to successfully accomplish viral

replication despite the toxicity of viral products and the immune response elicited against the virus. Also the interplay between virus induced apoptosis and cell survival is mediated by an accurate balance between pro death and anti apoptotic signals triggered by cellular and viral proteins. Hence viral survival products causing a delay in the completion of apoptotic process can be critical in the replication and propagation of viruses. Viral control of apoptosis can be a double edged sword. In some viral infections immune cell apoptosis will contribute to pathogenesis and determine disease evolution either by direct infection of immune cells or as a result of bystander cell apoptosis caused by viral proteins or mediators secreted from infected cells. The apoptotic mechanisms contributing to HIV pathogenesis, the functional consequences on the immune system and the effect of antiviral therapies on this process will be reviewed in depth in this Volume.

Molecular Basis of Symbiosis Jrg Overmann, 2006-01-10 Extrusive Bacterial Ectosymbiosis of Ciliates
Alternative Splicing and Disease Philippe Jeanteur, 2006-10-04 Splicing of primary RNA transcript is a quasi systematic step of gene expression in higher organisms. This is the first book to highlight the medical implications i.e. diseases caused by alternative splicing. Alternative splicing not only vastly increases protein diversity but also offers numerous opportunities for aberrant splicing events with pathological consequences. The book also outlines possible targets for therapy.
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.

Developmental Biology of Neoplastic Growth Alvaro Macieira-Coelho, 2005-05-20 In this book tumour growth is perceived as a deviation from the normal development of the human organism. The molecular, cellular and tissue determinants of different tumours are discussed showing that each is a different disease often corresponding to a particular developmental stage. The natural history of several cancers illustrates how clinical incidence can be just the visible part of the iceberg while the first changes at the tissue level sometimes occur several years before tumour growth becomes manifest. Several mechanisms are proposed to explain the distribution of cancers during the human life span and the decline of the incidence of cancers during human senescence.
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 *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 **Environmental Health Perspectives** ,1993 **Antifouling Compounds** Nobuhiro Fusetani,Anthony S. Clare,2006-10-11 Awareness of the dangers of toxic components in antifouling coatings has raised interest in the potential for nontoxic alternatives Marine organisms from bacteria to invertebrates and plants use chemicals to communicate and defend themselves This book explores natural based antifoulants their ecological functions methods of characterisation and possible uses in antifouling The text takes on the challenge of identifying such compounds designing sustainable production and incorporating them into antifouling coatings **Single-stranded RNA phages** Paul Pumpens,2020-02-03 This is a comprehensive guide to single stranded RNA phages family Leviviridae first discovered in 1961 These phages played a unique role in early studies of molecular biology the genetic code translation replication suppression of mutations Special attention is devoted to modern applications of the RNA phages and their products in nanotechnology vaccinology gene discovery evolutionary and environmental studies Included is an overview of the generation of novel vaccines gene therapy vectors drug delivery and diagnostic tools exploring the role of RNA phage derived products in the revolutionary progress of the protein tethering and bioimaging protocols Key Features Presents the first full guide to single stranded RNA phages Reviews the history of molecular biology summarizing the role RNA phages in the development of the life sciences Demonstrates how RNA phage derived products have resulted in nanotechnological applications Presents an up to date account of the role played by RNA phages in evolutionary and environmental studies **Computational Predictions, Dynamic Tracking, and Evolutionary Analysis of Antibiotic Resistance Through the Mining of Microbial Genomes**

and Metagenomic Data Qi Zhao,Chin Yen Tay,Liang Wang,Jian Li,2022-04-27 Single Particle Tracking and Single Molecule Energy Transfer Christoph Bräuchle,Don Carroll Lamb,Jens Michaelis,2009-10-30 Closing a gap in the literature this handbook gathers all the information on single particle tracking and single molecule energy transfer It covers all aspects of this hot and modern topic from detecting virus entry to membrane diffusion and from protein folding using spFRET to coupled dye systems as well recent achievements in the field Throughout the first class editors and top international authors present content of the highest quality making this a must have for physical chemists spectroscopists molecular physicists and biochemists Systems Biology and Antimicrobial Drug Resistance Vijay Soni ,Saurabh Mishra,Aditya Kumar Sharma,Neha Dubey,2024-09-18 Antimicrobial resistance AMR poses a significant threat to global public health With the emergence of new resistant strains and limited antibiotic treatment options it has become increasingly difficult to treat infections effectively This is particularly concerning for bacterial infections like Mycobacterium tuberculosis Acinetobacter spp Staphylococcus aureus and Pseudomonas aeruginosa where only a limited number of antibiotics are available for treatment According to the US National Strategy for Combating Antibiotic Resistant Bacteria approximately 2 million Americans are infected with antibiotic resistant bacteria each year and at least 23 000 die as a result The situation is even worse in developing countries Systems biology which aims to understand the complex interactions between the different components of a biological system has emerged as a powerful tool for studying AMR By integrating data from multiple sources including genomics transcriptomics proteomics and metabolomics systems biology can provide a comprehensive view of the mechanisms underlying AMR This approach can lead to the identification of novel targets for drug development and the development of personalized treatment strategies that consider the specific characteristics of individual patients and the pathogens that infect them This Research Topic aims to explore the potential of systems biology in combating antibiotic resistance and highlight the need for further research to fully realize its clinical potential in infectious diseases **Epigenetics and Chromatin** Philippe Jeanteur,2008-09-10 Epigenetics refers to heritable patterns of gene expression which do not depend on alterations of genomic DNA sequence This book provides a state of the art account of a few selected hot spots by scientists at the edge in this extremely active field It puts special emphasis on two main streams of research One is the role of post translational modifications of proteins mostly histones on chromatin structure and accessibility The other one deals with parental genomic imprinting a process which allows to express a few selected genes from only one of the parental allele while extinguishing the other Inflammatory Tumor Immune Microenvironment: Molecular Mechanisms and Signaling Pathways in Cancer Progression and Metastasis Xu Wang,Tengchuan Jin,Christopher James Pirozzi,Xueli Zhang,Shu-Heng Jiang,2022-03-25 Cumulated Index Medicus ,1990

Rna Trafficking And Nuclear Structure Dynamics Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Rna Trafficking And Nuclear Structure Dynamics**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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