

Topics in Current Genetics

H. Grosjean (Ed.)

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Fine-Tuning of RNA Functions by Modification and Editing

 Springer

Finetuning Of Rna Functions By Modificaiton And Editing

Kwang W. Jeon



Finetuning Of Rna Functions By Modificaiton And Editing:

Fine-Tuning of RNA Functions by Modification and Editing Henri Grosjean, 2005-05-03 Naturally occurring RNA always contains numerous biochemically altered nucleotides They are formed by enzymatic modification of the primary transcripts during the complex RNA maturation process designated RNA modification A large number of enzymes catalyzing the formation of these modified nucleosides or converting one canonical base into another at the posttranscriptional level have been studied for many years but only recently have systematic and comparative studies begun The functions of individual enzymes and or the modified edited nucleosides in RNA however have remained largely ignored This book provides advance information on RNA modification including the associated editing machinery while offering the reader some perspective on the significance of such modifications in fine tuning the structure and functions of mature RNA molecules and hence the ability to influence the efficiency and accuracy of genetic expression Outstanding scientists who are actively working on RNA modification editing processes have provided up to date information on these intriguing cellular processes that have been generated over the course of millions of years in all living organisms Each review has been written and illustrated for a large audience of readers not only specialists in the field but also for advanced students or researchers who want to learn more about recent progress in RNA modification and editing *RNA and DNA Editing* Harold C. Smith, 2008-04-25 RNA and DNA Editing assembles a team of leading experts who present the latest discoveries in the field alongside the latest models and methodology In addition the authors set forth the many open questions and suggest routes for further investigation Overall the book serves as a practical guide for professionals in the field who need to understand the interrelationship of RNA and DNA editing with other chemical and biological processes *RNA Modification*, 2015-12-11 RNA Modification provides a useful examination of the science and its role in biological regulation the current frontier of life science research and includes various RNA modications and their role in gene expression It represents the most up to date knowledge and protocols available today Dynamic RNA modifications and their roles in biological regulation are the current frontier of life science research This volume of Methods in Enzymology represents up to date knowledge and protocols

RNA Modifications and Epitranscriptomics Xiao Han, Jia Meng, Giovanni Nigita, 2022-05-05 **DNA and RNA Modification Enzymes** Henri Grosjean, 2009-06-11 This volume is a timely and comprehensive description of the many facets of DNA and RNA modification editing processes and to some extent repair mechanisms Each chapter offers fundamental principles as well as up to date information on recent advances in the field up to end 2008 They ended by a short conclusion and future prospect section and *Modified Nucleic Acids in Biology and Medicine* Stefan Jurga, Volker A. Erdmann (Deceased), Jan Barciszewski, 2016-07-29 This volume is comprised of 18 chapters covering various aspects of DNA modification and RNA modified bases It also discusses in detail circular RNA therapeutic oligonucleotides and their different properties The chemical nature of DNA RNA protein and lipids makes these macromolecules easily modifiable but they are

also susceptible to damage from both endogenous and exogenous agents Alkylation and oxidation show a potential to disrupt the cellular redox equilibrium and cause cellular damage leading to inflammation and even chronic disease Furthermore DNA damage can drive mutagenesis and the resulting DNA sequence changes can induce carcinogenesis and cancer progression Modified nucleosides can occur as a result of oxidative DNA damage and RNA turnover and are used as markers for various diseases To function properly some RNA needs to be chemically modified post transcriptionally Dysregulation of the RNA modification pattern or of the levels of the enzymes that catalyze these modifications alters RNA functionality and can result in complex phenotypes likely due to defects in protein translation While modifications are best characterized in noncoding ribonucleic acids like tRNA and rRNA coding mRNAs have also been found to contain modified nucleosides This book is a valuable resource not only for graduate students but also researchers in the fields of molecular medicine and molecular biology

The Oxford Handbook of Neuronal Protein Synthesis Wayne S. Sossin, 2021 The Oxford Handbook of Neuronal Protein Synthesis reviews the mechanisms of translational control used by the nervous system as well as how nervous system functions such as plasticity and homeostasis depend on accurate translational control The handbook extensively covers how dysregulation of protein synthesis can manifest itself in many distinct pathological processes including neurodevelopmental neuropsychiatric and neurodegenerative diseases

Navigating Non-coding RNA Joanna Sztuba-Solinska, 2023-06-17 Navigating Non coding RNA From Biogenesis to Therapeutic Application provides a concise overview of the field of non coding RNA ncRNA Chapters cover the history of discoveries that have occurred in the area of ncRNA specific types of ncRNA housekeeping ncRNAs such as ribosomal RNA transfer RNA small nuclear RNA and telomerase RNA regulatory ncRNAs such as microRNA small interfering RNA long non coding RNA and Y RNA Biogenesis structure function and regulation of each of these are also explored in addition to traditional and cutting edge methods for the identification functional characterization and structural characterization of ncRNA The book also focuses on the different types of epitranscriptomic modifications and their involvement in regulating ncRNA structure stability and intermolecular interactions in addition to the role of ncRNAs in a range of diseases and potential therapeutic applications Covers a wide range of non coding RNAs including ribosomal RNA transfer RNA telomerase RNA microRNA small interfering RNA and circular RNA Features both traditional and novel methodologies for investigating ncRNA from microarray and conventional chemical probing to CAGE seq and computational methods Includes chapters on ncRNAs in a range of diseases including cancers neurological disorders cardiovascular conditions and infectious illnesses Discusses novel therapeutic strategies for targeting ncRNAs including CRISPR/Cas9 applications and RNAi based strategies Explores the molecular mechanisms and intermolecular interactions of ncRNA

RNA Damage and Repair Ioly Kotta-Loizou, 2021-07-04 Ribonucleic acid RNA is a macromolecule that plays a central role in cell physiology RNA molecules act as intermediates between the deoxyribonucleic acid DNA where genetic information is stored and proteins which perform the necessary functions within the cell

Traditionally the structural and functional properties of RNA are closely linked to gene expression. However, RNA-based enzymes called ribozymes are also involved in catalysis, and small RNAs regulate key cellular processes such as cell growth, division, differentiation, aging, and death. RNA is a sensitive macromolecule that can be easily damaged by environmental conditions, ultraviolet radiation, oxidative stress, and biological factors. Ribonucleases, ribotoxins, CRISPR-Cas systems. Therefore, cells have developed mechanisms to protect and/or repair RNA molecules. This book presents an overview of the biology of RNA damage protection and repair in prokaryotes and eukaryotes. Individual chapters cover the expression, regulation, enzymology, and physiological role of such systems and link them to important human diseases such as cancer and degenerative diseases.

Mass Spectrometry of Nucleosides and Nucleic Acids Joseph H. Banoub, Patrick A. Limbach, 2009-12-21. Assembling the work of an international panel of researchers, *Mass Spectrometry of Nucleosides and Nucleic Acids* summarizes and reviews the latest developments in the field and provides a window on the next generation of analysis. Beginning with an overview of recent developments, the book highlights the most popular ionization methods and illustrates.

Translating Epigenetics to the Clinic Jeffrey Laurence, 2016-12-30. *Translating Epigenetics to the Clinic* reviews current methodological tools and experimental approaches used by leading translational researchers seeking to use epigenetics as a clinical model. It organizes epigenetics into disease treatment areas with a major focus on oncology and with much coverage of pervasive treatment categories such as diabetes as well as the diseases of modernity including pharmacological addiction, dementia, and ageing. Pedagogically, the work concentrates on the latest knowledge, laboratory techniques, and experimental approaches used by translational research leaders in this field. The book promotes cross-disciplinary communication between the sub-specialties of medicine. In common with the rest of the books in *Translational Medicine*, the book remains unified in theme by emphasizing recent innovations, critical barriers to progress, and the new tools being used to overcome them. Also included are specific areas of research that require additional study to advance the field as a whole. Encompasses the latest innovations and tools being used to apply epigenetics in the lab and clinic. Features extensive pedagogical updates aiming to improve the education of translational researchers in this field. Offers a transdisciplinary approach to support cross-fertilization between different sub-specialties of medicine.

Nucleic Acids in Innate Immunity Ken J. Ishii, Shizuo Akira, 2008-05-22. Until recently, innate immunity was regarded as a relatively nonspecific system designed to engulf and destroy pathogens. However, new studies show that the innate immune system is highly developed in its ability to discriminate between self and foreign entities. Understanding this mechanism can lead to therapeutic strategies based on manipulation.

Selenium Dolph L. Hatfield, Marla J. Berry, Vadim N. Gladyshev, 2007-01-11. The discovery of selenoproteins in 1973 was the starting point for today's flourishing selenium field. 1. 2. It provided evidence that selenium had biochemical functions that could account for its nutritional effects. 3. 4. Further, it opened the selenium field to investigation by the methods of biochemistry, which led to the identification of several more selenoproteins and showed that selenocysteine was

the form of the element in animal selenoproteins and in most bacterial ones Although noteworthy efforts were made to uncover the mechanism of selenocysteine and selenoprotein synthesis using biochemical methods the problem yielded only when attacked with the methods of molecular biology 5 6 The bacterial mechanism was characterized first characterization of the animal mechanism is a work in progress It is interesting to note that the only genes that are devoted to selenium metabolism are those that support selenoprotein synthesis and selenocysteine catabolism Consequently it seems likely that competition for selenium between selenoprotein synthesis and the production of selenium excretory metabolites 7 controls who body selenium homeostasis The physiological functions of selenium derive fi om the catalytic and physical properties of selenoproteins Selenoproteins such as the glutathione peroxidases and the thioredoxin reductases have redox activities that allow them to serve in oxidant defense The deiodinases use their redox activities to activate and inactivate thyroid hormones From these two examples it can be seen that selenoprotein functions are diverse while having in common a redox mechanism

Small RNAs: Wolfgang Nellen,Christian Hammann,2007-09-12 In recent years Molecular Biology has experienced an unprecedented revolution by the discovery of functional small RNAs The number of cellular processes in which non coding RNAs are involved is growing rapidly and include gene regulation on the transcriptional post transcriptional and translational level To complicate matters these processes seem to be strongly interconnected on the one hand and diverse among different organisms on the other This volume describes strategies for the discovery and validation of small RNAs and provides a snapshot of our current understanding of the different mechanisms triggered by small RNAs

Mitochondrial Diseases
Wiley,2013-07-12 This collection of reviews and protocols provides the reader with an introduction to the current state of knowledge on how various diseases are related to mitochondrial dysfunction Mitochondria contain their own genome a small circular double stranded DNA mtDNA and alterations in mtDNA may play an important role in the multistep carcinogenesis of at least some types of human cancer In addition to mutations of mtDNA many mitochondrial syndromes are due to abnormalities in nuclear genes related to oxidative phosphorylation OXPHOS Mitochondrial tRNA MTT gene mutations are an important cause of human morbidity and are associated with a wide range of pathology from isolated organ specific diseases such as myopathy or hearing loss to multisystem disorders with encephalopathy gastrointestinal dysmotility and life threatening cardiomyopathy The relationship of the mitochondrion organelle to aging and longevity is also discussed Laboratory protocols describe methodology to characterize mtDNA heteroplasmy by parallel sequencing Each eukaryotic cell contains hundreds of mitochondria with hundreds of mitochondria genomes Mutant and wild type mtDNA may co exist as heteroplasmy and cause human disease The purpose of this protocol is to simultaneously determine mtDNA sequence and quantify the heteroplasmic level Another protocol describes procedures for obtaining tissue sections and cell material suitable for histological evaluation of OXPHOS activity and integrity and immunodetection of the complexes in tissue from patients suspected of mitochondrial disease Emphasis lies on the diagnostic potential of these techniques to differentiate

mtDNA from nuclear mutations This e book a curated collection from eLS WIREs and Current Protocols offers a fantastic introduction to the field of mitochondrial diseases for students or interdisciplinary collaborators

International Review of Cell and Molecular Biology Kwang W. Jeon, 2015-02-20 International Review of Cell and Molecular Biology presents comprehensive reviews and current advances in cell and molecular biology Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth The series has a world wide readership maintaining a high standard by publishing invited articles on important and timely topics authored by prominent cell and molecular biologists Authored by some of the foremost scientists in the field Provides comprehensive reviews and current advances Wide range of perspectives on specific subjects Valuable reference material for advanced undergraduates graduate students and professional scientists

New Antibiotic Targets W. Scott Champney, 2008-01-15 This book examines specific techniques which can be used to explore new drug targets and the effectiveness of new antibiotics By testing new antimicrobial agents and modified existing drugs the most vulnerable cell processes such as cell wall and membrane synthesis DNA replication RNA transcription and protein synthesis can be better exploited This in depth volume however delves even deeper by identifying additional novel cellular targets for these new therapies The book will provide laboratory investigators with the vital tools they need to test the antimicrobial potential of products and to curb the rise of so many infectious diseases

Non-coding RNAs in Cardiovascular Diseases Junjie Xiao, 2020-04-13 This book presents the latest research on non coding RNAs in cardiovascular disease a major cause of death worldwide Non coding RNAs play a significant role in development proliferation differentiation and apoptosis Since altered non coding RNA expression is often associated with various diseases their potential use in diagnostics prognostics and therapeutics is an important current area of study The book consists of six parts 1 An overview of non coding RNAs and cardiovascular system 2 Bioinformatics and interactions 3 Non coding RNA regulation in cardiovascular system 4 Non coding RNAs and cardiovascular diseases 5 Potential biomarkers and therapeutic implications 6 Future prospects It is particularly useful for researchers and students in the field of non coding RNA and cardiovascular biology as well as for cardiologists pharmacologists and physiologists

Wiley Encyclopedia of Chemical Biology, Volume 1 Tadhg P. Begley, 2009 The first major reference at the interface of chemistry biology and medicine Chemical biology is a rapidly developing field that uses the principles tools and language of chemistry to answer important questions in the life sciences It has enabled researchers to gather critical information about the molecular biology of the cell and is the fundamental science of drug discovery playing a key role in the development of novel agents for the prevention diagnosis and treatment of disease Now students and researchers across the range of disciplines that use chemical biology techniques have a single resource that encapsulates what is known in the field It is an excellent place to begin any chemical biology investigation Major topics addressed in the encyclopedia include Applications of chemical biology Biomolecules within the cell Chemical views of biology Chemistry of

biological processes and systems Synthetic molecules as tools for chemical biology Technologies and techniques in chemical biology Some 300 articles range from pure basic research to areas that have immediate applications in fields such as drug discovery sensor technology and catalysis Novices in the field can turn to articles that introduce them to the basics whereas experienced researchers have access to articles exploring the cutting edge of the science Each article ends with a list of references to facilitate further investigation With contributions from leading researchers and pioneers in the field the Wiley Encyclopedia of Chemical Biology builds on Wiley's unparalleled reputation for helping students and researchers understand the crucial role of chemistry and chemical techniques in the life sciences Voltage-Gated Calcium Channels Gerald Werner Zamponi, Norbert Weiss, 2022-11-07 This book covers the tremendous progress in the current understanding of the molecular physiology of voltage gated calcium channels This book includes unparalleled insights into structural features of calcium channels due to X ray crystallography and cryo EM which in turn yielded critical information into how these channels function under normal and pathophysiological conditions and how they interact with calcium channel therapeutics The chapters investigate how with the advent of high throughput genome sequencing numerous mutations in various calcium channel genes have been identified in patients with neurological cardiovascular neuropsychiatric and other disorders This is further complemented through a much larger in vivo toolkit such as knock out and knock in mice The chapters further discuss the increased complexity of calcium channel physiology that arises from mRNA editing and splicing Finally the book also provides an overview of the updated research on calcium channel inhibitors that can be used both in vivo and in vitro and which may serve as a spring board for new calcium channel therapeutics for human disease Voltage Gated Calcium Channels is useful for academic researchers at all levels in neuroscience biophysics cell biology and drug discovery

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