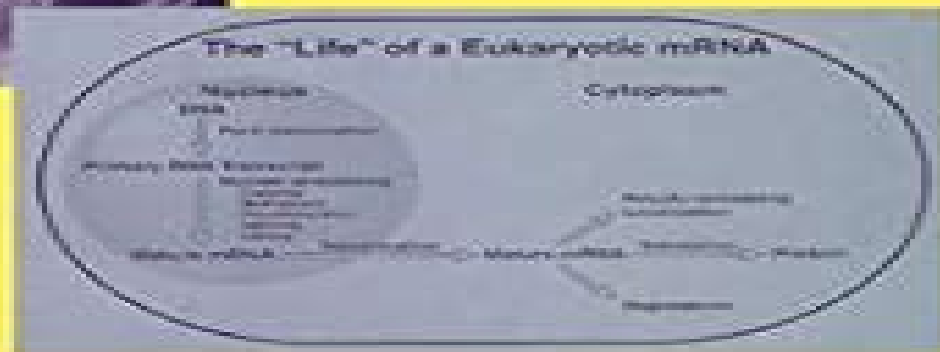


mRNA METABOLISM & POST-TRANSCRIPTIONAL GENE REGULATION

Joe B. Harford
David R. Morris
Editors



MODERN CELL BIOLOGY

Mrna Metabolism And Post Transcriptional Gene Regulation

Nima Rezaei



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mRNA Metabolism & Post-Transcriptional Gene Regulation Joe B. Harford, David R. Morris, 1997-03-28 mRNA METABOLISM however there is a growing recognition of and appreciation for the importance of the many regulatory mechanisms that take place after RNA synthesis has been completed mRNA Metabolism and Post Transcriptional Gene Regulation is the first comprehensive overview of the various modes of gene regulation that exist post transcriptionally Collecting studies by some of the top researchers in the field this volume provides both an up to date review of the complex life of an mRNA molecule and an introduction to current work on the diversity of mechanisms of post transcriptional reactions Topics covered include RNA structure Mammalian RNA editing RNA export from the nucleus The fundamentals of translation initiation Control of mRNA decay in plants mRNA metabolism and cancer Control of mRNA stability during herpes simplex virus infection Regulation of mRNA expression in HIV 1 and other complex retroviruses Nucleases RNA localization A timely contribution to the understanding of genetic regulatory mechanisms mRNA Metabolism and Post Transcriptional Gene Regulation provides a basis from which potential therapeutic strategies may be developed This book will be of vital interest to cell and molecular biologists at all levels from graduate students to senior investigators clinical researchers and professionals in the pharmaceutical and biotechnology industries

Post-Transcriptional Gene Regulation Jeffrey Wilusz, 2008 Step by step instructions that ensure successful results

RNA Methodologies Robert E. Farrell Jr., 2009-08-31 This is the fourth edition of the successful laboratory guide which has translated the rich story of ribonucleic acid for over fifteen years RNA Methodologies 4e presents the latest collection of tested laboratory protocols for the isolation and characterization of eukaryotic and prokaryotic RNA with greater emphasis on transcript profiling including quantification issues and elucidation of alternative transcription start sites Collectively the chapters work together providing analysis with clear take home lessons to assist researchers to understand RNA and to optimize time at the bench The abundant use of flow charts tables and graphs are especially helpful in the planning and implementation phases of a project and facilitate learning 30% new material in this edition includes the addition of RNA isolation protocols including RNA isolation from tissue expansion of PCR optimization analysis and RNA interference sections the introduction of a new chapter dealing with the molecular biology of plants and an expanded glossary 30% new material with the addition of RNA isolation protocols including RNA isolation from tissue expansion of PCR optimization analysis and RNA interference sections the introduction of a new chapter dealing with the molecular biology of plants and an expanded glossary Author is a well recognized expert in the field of RNA experimentation and founded Exon Intron a well known biotechnology educational workshop center Includes classic and contemporary techniques useful for all labs

Post-transcriptional Gene Regulation in Human Disease Buddhi Prakash Jain, Shyamal K Goswami, Tapan Sharma, 2022-08-12 Post transcriptional Gene Regulation in Human Disease a new volume in the Translational Epigenetics book series offers a thorough overview and discussion of post

transcriptional genetic control mechanisms and their roles across various pathologies and human developmental outcomes along with regulatory mechanisms targeted for therapeutic approaches The book is broadly divided in two parts early chapters describe the basics of post transcriptional gene regulation associated epigenetic mechanisms the role of RNA binding proteins the evolution of post transcriptional gene regulation and methods to study these mechanisms The second half of the book includes deeper discussion of post transcriptional gene regulation across specific diseases and therapeutics targets Various post transcriptional events including alternative splicing and polyadenylation mRNA stability and miRNAs and their involvement in the disease progression are examined in detail Includes full color imagery illustrating key concepts and post transcriptional disease processes as well as descriptions of methods for studying post transcriptional gene regulation Presents fundamental knowledge molecular and biochemical mechanisms and recent findings in concise and easily understandable formats Features a summary and conclusion at the end of each chapter

RNA Methodologies Robert E. Farrell, 2005-04 This laboratory guide represents a growing collection of tried tested and optimized laboratory protocols for the isolation and characterization of eukaryotic RNA with lesser emphasis on the characterization of prokaryotic transcripts Collectively the chapters work together to embellish the RNA story each presenting clear take home lessons liberally incorporating flow charts tables and graphs to facilitate learning and assist in the planning and implementation phases of a project RNA Methodologies 3rd edition includes approximately 30% new material including chapters on the more recent technologies of RNA interference including RNAi Microarrays Bioinformatics It also includes new sections on new and improved RT PCR techniques innovative 5 and 3 RACE techniques subtractive PCR methods methods for improving cDNA synthesis Author is a well recognized expert in the field of RNA experimentation and founded Exon Intron a well known biotechnology educational workshop center Includes classic and contemporary techniques Incorporates flow charts tables and graphs to facilitate learning and assist in the planning phases of projects

Lung Cancer Pathophysiology: An Interdisciplinary Approach Nima Rezaei, 2024-07-19 Lung cancer is one of the most common cancers and the leading cause of deaths worldwide The eighth volume of the Interdisciplinary Cancer Research series entitled Lung Cancer Pathophysiology An Interdisciplinary Approach publishes comprehensive reviews on the mechanisms of lung cancer Fundamental elements of a lung cancer multidisciplinary team are discussed The epithelial to mesenchymal transition in lung cancer and the roles of tumor immune microenvironment NK cells RNA micro RNA and long non coding RNA in lung cancer are explained A comprehensive genomic profiling in lung cancer in the era of immunotherapy approaches is also provided in this volume This interdisciplinary series is of special value to researchers working on oncology This is the main concept of Cancer Immunology Project CIP which is a part of Universal Scientific Education and Research Network USERN This interdisciplinary book will be of special value to researchers oncologists and oncosurgeons who wish to extend their knowledge on lung cancer

RNA Regulation in Development and Disease Maritza Jaramillo, Pascal Chartrand, Chiara

Gamberi,2020-06-15 *Biomedical Index to PHS-supported Research* ,1993 *Cellular Integration of Signalling Pathways in Plant Development* Fiorella Lo Schiavo,Robert L. Last,Giorgio Morelli,Natasha V. Raikhel,2013-06-29 In the last few years there have been tremendous advances in the understanding of signals and signalling pathways that operate at the cellular level and lead to developmental processes In 27 chapters this volume investigates the cellular and molecular basis of plant development It highlights the most recent progress on signals machinery and pathways in the plant cell Emphasis is placed on integrating these studies with those on cell division cell plate formation and other aspects of plant development in order to elucidate the intricate relationships between them *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1992 *Progress in Nucleic Acid Research and Molecular Biology* Kivie Moldave,2005-09-20 Nucleic acids are the fundamental building blocks of DNA and RNA and are found in virtually every living cell Molecular biology is a branch of science that studies the physicochemical properties of molecules in a cell including nucleic acids proteins and enzymes Increased understanding of nucleic acids and their role in molecular biology will further many of the biological sciences including genetics biochemistry and cell biology *Progress in Nucleic Acid Research and Molecular Biology* is intended to bring to light the most recent advances in these overlapping disciplines with a timely compilation of reviews comprising each volume **Neuroscience in the 21st Century** Donald W. Pfaff,Nora D. Volkow,John L. Rubenstein,2022-10-17 Edited and authored by a wealth of international experts in neuroscience and related disciplines this key new resource aims to offer medical students and graduate researchers around the world a comprehensive introduction and overview of modern neuroscience Neuroscience research is certain to prove a vital element in combating mental illness in its various incarnations a strategic battleground in the future of medicine as the prevalence of mental disorders is becoming better understood each year Hundreds of millions of people worldwide are affected by mental behavioral neurological and substance use disorders The World Health Organization estimated in 2002 that 154 million people globally suffer from depression and 25 million people from schizophrenia 91 million people are affected by alcohol use disorders and 15 million by drug use disorders A more recent WHO report shows that 50 million people suffer from epilepsy and 24 million from Alzheimer s and other dementias Because neuroscience takes the etiology of disease the complex interplay between biological psychological and sociocultural factors as its object of inquiry it is increasingly valuable in understanding an array of medical conditions A recent report by the United States Surgeon General cites several such diseases schizophrenia bipolar disorder early onset depression autism attention deficit hyperactivity disorder anorexia nervosa and panic disorder among many others Not only is this volume a boon to those wishing to understand the future of neuroscience it also aims to encourage the initiation of neuroscience programs in developing countries featuring as it does an appendix full of advice on how to develop such programs With broad coverage of both basic science and clinical issues comprising around 150 chapters from a diversity of international authors and including complementary video components *Neuroscience in the 21st Century* in its third edition

serves as a comprehensive resource to students and researchers alike Research Awards Index ,1989 **Cell Polarity and Subcellular RNA Localization** Dietmar Richter,2012-11-03 Selective cytoplasmic organelle and protein targeting has long been thought to constitute the sole determinant of cell polarity and complexity This view has been changed however by the discovery of differential subcellular RNA distribution patterns Over the past decade it has become clear that selective mRNA sorting and translation contributes to an accumulation of cognate proteins at discrete cellular sites In this book various systems are discussed e g Xenopus oocytes mammalian brain invertebrate nervous system in terms of RNA trafficking RNA targeting sequences cis elements and RNA transporting proteins trans factors activity dependent translational regulation and the significance of the cytoskeleton for neuronal function and plasticity It also discusses nucleocytoplasmic export of mRNA and viral RNA as another example of subcellular RNA kinesis Learning and Memory: A Comprehensive Reference ,2017-07-07 Learning and Memory A Comprehensive Reference Second Edition Four Volume Set is the authoritative resource for scientists and students interested in all facets of learning and memory This updated edition includes chapters that reflect the state of the art of research in this area Coverage of sleep and memory has been significantly expanded while neuromodulators in memory processing neurogenesis and epigenetics are also covered in greater detail New chapters have been included to reflect the massive increase in research into working memory and the educational relevance of memory research No other reference work covers so wide a territory and in so much depth Provides the most comprehensive and authoritative resource available on the study of learning and memory and its mechanisms Incorporates the expertise of over 150 outstanding investigators in the field providing a one stop resource of reputable information from world leading scholars with easy cross referencing of related articles to promote understanding and further research Includes further reading for each chapter that helps readers continue their research Includes a glossary of key terms that is helpful for users who are unfamiliar with neuroscience terminology Cancer Evolution: From Biological Insights to Therapeutic Opportunities Marco Mina,Lorenzo Gerratana,Andrew Davis,2022-09-20 **Omics and Genome Editing** Kartika Sharma,2025-03-15 This book offers up to date research on genome editing and omics technologies from renowned academics with established backgrounds from throughout the globe The world population is expected to touch 9 10 billion by 2050 and to feed the growing population 50% more food must be produced globally than is currently produced Nonetheless it is a difficult challenge to increase the food output of the currently existing crops on available land Over the past few decades traditional crop enhancement techniques like plant breeding and other agricultural technology have made a significant contribution to food and nutritional security With the use of strong technologies genome editing strategies can significantly improve the productivity and efficiency of current agricultural practices Discovering the underlying mechanisms influencing features of economic value has been made possible through genome editing through CRISPR Cas9 primer and base editing and OMICs through genomics proteomics metabolomics transcriptomics and phenomics This book provides a

wealth of information on omics and genome editing approaches and their application to develop abiotic biotic and climate tolerant crops as well as RNA interference next generation sequencing and metabolomics for sustainable crop production. Researchers are actively using both genome editing and omics for crop improvement; however, there is limited literature offered in a single source. Undergraduate and postgraduate students, researchers, policymakers, and stakeholders will find this book to be an invaluable resource.

Diagnosis, Treatment and Prognosis of Viral Hepatitis Jian Wu, Wenyu Lin, Yijin Wang, Chuanlong Zhu, 2022-05-24

Progress in Iron Research Chaim Hershko, Abraham M. Konijn, Philip Aisen, 2012-12-06

The 4th International Conference on Hemochromatosis and the 11th International Conference on Iron and Iron Proteins took place in Jerusalem on April 27-30 and on May 2-7, 1993, respectively. The first a clinical meeting and the second a forum designed primarily for basic scientists. Both meetings are held regularly on alternate years and represent probably the most important forum for the exchange of information in iron research. The present volume *Progress in Iron Research* is based on a selection of presentations delivered at these meetings. However, this volume represents much more than a publication of conference proceedings. It offers a comprehensive state-of-the-art review on most aspects of iron metabolism. We have tried to offer a balanced review of the most important recent developments in iron research, including both basic research and clinical investigation. However, the scope of chapters was based by definition on the actual participants at the meetings, and some important fields in iron research, such as plant physiology, microbial aspects of iron metabolism, and free radical research, have not been dealt with. Many of the authors of the 40 chapters have been personally responsible for some of the most important developments in iron research, providing insights into iron physiology and pathophysiology. The Editors wish to express their gratitude for the outstanding and timely cooperation of all contributors to this volume.

Plant Research
MSU/ERDA Plant Research Laboratory, MSU-DOE Plant Research Laboratory, 1997

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