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Helicases

Methods and Protocols

Edited by

Mohamed M. Abdelhaleem



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Helicases Methods And Protocols Methods In Molecular Biology

Neil Osheroff, Mary-Ann Bjornsti



Helicases Methods And Protocols Methods In Molecular Biology:

Helicases Mohamed M. Abdelhaleem, 2009-12-04 In recent years much information has been revealed concerning the essential role of helicases the enzymes that utilize the energy derived from nucleoside triphosphate hydrolysis to unwind the double stranded helical structure of nucleic acids In *Helicases Methods and Protocols* this topic is explored by leading international scientists who have contributed significantly to our current understanding of helicases and the ways in which they function Chapters include methods for the production and purification of helicases from different species as well as detailed studies of helicase activities including NTP binding and hydrolysis nucleic acid binding and unwinding and translocation along nucleic acid substrates Composed in the highly successful *Methods in Molecular Biology*TM series format each chapter contains a brief introduction step by step methods a list of necessary materials and a Notes section which shares tips on troubleshooting and avoiding known pitfalls Wide ranging and innovative *Helicases Methods and Protocols* is the ultimate guide for researchers providing the scientific community with comprehensive accounts of the most advanced methods used to study helicases today **Antiviral Methods and Protocols** Derek Kinchington, Raymond F. Schinazi, 2008-02-01 This latest addition to the *Methods in Molecular Medicine* series *Antiviral Methods and Protocols* is opportune because there is an increasing interest in discovering compounds that are effective against both chronic and acute viral infections A number of the methods described in the volume are unpublished and their inclusion indicates the speed at which this field is moving This volume is not a review but each chapter contains methods validated by the experts who have spent time in developing the protocols The hallmark of this series is the comprehensive way in which the methods are described which includes a list of all the reagents needed for each protocol Of importance is the section on tips and pitfalls that the authors have discovered while developing their protocols The manual itself is designed to be used by researchers in universities and industry who are familiar with a range of biological techniques but who want to set up quickly a novel assay system We encourage a dialog between readers and authors which may also result in useful collaborations **Nuclease Methods and Protocols** Catherine H. Schein, 2008-02-03 Nucleases enzymes that restructure or degrade nucleic acid polymers are vital to the control of every area of metabolism They range from housekeeping enzymes with broad substrate ranges to extremely specific tools 1 Many types of nucleases are used in lab protocols and their commercial and clinical uses are expanding The purpose of *Nuclease Methods and Protocols* is to introduce the reader to some well characterized protein nucleases and the methods used to determine their activity structure interaction with other molecules and physiological role Each chapter begins with a mini review on a specific nuclease or a nuclease related theme Although many chapters cover several topics they were arbitrarily divided into five parts Part I Characterizing Nuclease Activity includes protocols and assays to determine general processive distributive or specific mechanisms Methods to assay nuclease products identify cloned nucleases and determine their physiological role are also included here Part II Inhibitors and Activators of Nucleases

summarizes assays for measuring the effects of other proteins and small molecules Many of these inhibitors have clinical relevance Part III Relating Nuclease Structure and Function provides an overview of methods to determine or model the 3 D structure of nucleases and their complexes with substrates and inhibitors A 3 D structure can greatly aid the rational design of nucleases and inhibitors for specific purposes Part IV Nucleases in the Clinic summarizes assays and protocols suitable for use with tissues and for nuclease based therapeutics

Optical Tweezers Arne Gennerich, 2022-09-05 This detailed volume explores a wide variety of techniques involving optical tweezers a technology that has become increasingly more accessible to a broad range of researchers Beginning with recent technical advances the book continues by covering the application of optical tweezers to study DNA protein interactions and DNA motors protocols to perform protein unfolding experiments the application of optical tweezers to study actin and microtubule associated motor proteins and well as protocols for investigating the function and mechanical properties of microtubules and intermediate filaments and more Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Optical Tweezers Methods and Protocols Second Edition serves as an ideal resource for expanding the accessibility and use of optical traps by scientists of diverse disciplines

DNA Repair Protocols Daryl S. Henderson, 2008-02-03 The first edition of this book published in 1999 and called DNA Repair Protocols Eukaryotic Systems brought together laboratory based methods for studying DNA damage and repair in diverse eukaryotes namely two kinds of yeast a nematode a fruit fly a toad three different plants and human and murine cells This second edition of DNA Repair Protocols covers mammalian cells only and hence its new subtitle Mammalian Systems There are two reasons for this fresh emphasis both of them pragmatic to cater to the interests of what is now a largely mammalocentric DNA repair field and to expedite editing and production of this volume Although DNA Repair Protocols Mammalian Systems is a smaller book than its predecessor it actually contains a greater variety of methods Fourteen of the book's thirty two chapters are entirely new and areas of redundancy present in the first edition have been eliminated here for example now just two chapters describe assays for nucleotide excision repair NER rather than seven All eighteen returning chapters have been revised many of them extensively In order to maintain a coherent arrangement of topics the four part partitioning seen in the first edition was dispensed with and chapters concerned with ionizing radiation damage and DNA strand breakage and repair were recast to near the front of the book Finally an abstract now heads each chapter

DNA Repair Protocols Pat Vaughan, 2008-02-02 When setting out to decide on the content of DNA Repair Protocols Prokaryotic Systems I was conscious of the need to portray the vast array of pathways and enzymatic activities that are part of the discipline of DNA repair In addition to the classical DNA repair activities I wanted to convey the significant interest that has been generated in recent years in the use of the proteins and repair systems as research tools much like the use of restriction enzymes over the last

few decades Therefore in addition to chapters detailing protocols for investigating specific repair activities I have included several chapters in this book on the applied use of DNA repair proteins and systems The many years of research on bacterial DNA repair systems have allowed us to really understand the majority of DNA repair pathways in bacterial cells Building on this knowledge research has led to major advances in understanding mammalian DNA repair and uncovered its links to human disease such as DNA mismatch repair and colon cancer nucleotide excision repair and xeroderma pigmentosum DNA helicase function in Bloom's syndrome and so on Such have been the advances that Science magazine identified the collective DNA repair systems as its Molecule of the Year in 1994 **Mitochondrial DNA** William C. Copeland,2008-02-04

Helicase Enzymes Part B ,2022-08-12 Methods in Enzymology serial highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Methods in Enzymology serials Updated release includes the latest information on Helicase Enzymes **Mitochondrial DNA** Thomas J. Nicholls,Jay P. Uhler,Maria Falkenberg,2023-02-20 This volume compiles a comprehensive range of methods to study key aspects of mitochondrial DNA including nucleoid structure and packaging replication genome integrity and disease Chapters are organized into eight methodological sections that cover in vitro and in vivo methods including for mtDNA isolation visualization deep sequencing gene editing and diagnostic aspects of mtDNA disease Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and methods includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Mitochondrial DNA Methods and Protocols aims to be useful and informative for researchers and clinicians with an interest in mitochondrial DNA Magnetic Tweezers for the Study of Protein Structure and Function

,2024-03-14 Magnetic Tweezers for the Study of Protein Structure and Function Volume 694 in the Methods in Enzymology serial highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including Single membrane protein tethering for magnetic tweezer experiments Membrane protein folding studies using a robust magnetic tweezer method Magnetic tweezers in cell mechanics and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology serials Updated release includes the latest information on Magnetic Tweezers for the Study of Protein Structure and Function

Using the Biological Literature Diane Schmidt,2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries Using the Biological Literature A Practical Guide Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous

new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition *Bloom Syndrome: New Insights for the Healthcare Professional: 2011 Edition* ,2012-01-09 Bloom Syndrome New Insights for the Healthcare Professional 2011 Edition is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Bloom Syndrome in a compact format The editors have built Bloom Syndrome New Insights for the Healthcare Professional 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Bloom Syndrome 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 Bloom Syndrome New Insights for the Healthcare Professional 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> Ribozymes and siRNA protocols Mouldy Sioud,2008-02-03 In this completely updated and expanded edition of a classic bench manual hands on experts take advantage of the latest advances in ribozyme DNAzyme hammerhead ribozymes and derivatives and RNA interference technologies to describe in detail the exciting and successful methods now available for gene inactivation in vitro and in vivo Their optimized techniques employ hairpin ribozymes DNAzymes hammerhead ribozymes and derivatives group I intron ribozymes RNase P ribozymes and siRNAs as well as general methods for RNA structure analysis delivery of oligonucleotides and gene therapy Also provided are novel methods for identifying accessible cellular mRNA sites group I intron and RNase P ribozyme protocols for effective design selection and therapeutic applications and the latest RNAi methods for sequence specific gene silencing in a wide variety of organisms Additional techniques cover the analysis of ribozyme structures and conformational transitions using nucleotide analog interference mapping and fluorescence resonance energy transfer the use of ribozymes in clinical and gene therapy and the use of ribozymes and DNAzymes in rodent models of human disease Each proven protocol includes a background introduction outlining the principle behind the technique step by step instructions lists of equipment and reagents and tips on troubleshooting and avoiding known pitfalls Comprehensive and up to date Ribozymes and siRNA

Protocols details for experienced and novice investigators alike the many exciting advances in our understanding of nucleic acid enzymes as well as demonstrating how they may be used to analyze gene function and target validation and to productively develop novel therapeutics for human diseases **Helicase Enzymes Part A** ,2022-08-05 Methods in Enzymology serial highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Methods in Enzymology serials Updated release includes the latest information on Helicase Enzymes **mRNA Processing and Metabolism** Daniel R. Schoenberg,2008-02-05 Cells possess a wealth of posttranscriptional control mechanisms that impact on every conceivable aspect of the life of an mRNA These processes are intimately intertwined in an almost baroque manner where promoter context influences the recruitment of splicing factors where the majority of pre mRNAs undergo alternative splicing and where proteins deposited during nuclear processing impact distal cytoplasmic processing translation and decay If there is a unifying theme to mRNA Processing and Metabolism Methods and Protocols it is that mRNA processing and metabolism are integrated processes Many of the techniques used to study mRNA have been described in a previous volume of this series RNA Protein Interaction Protocols Susan Haynes ed and specialized methods journals In selecting topics for mRNA Processing and Metabolism Methods and Protocols I sought input on new and novel techniques and approaches that build on this foundation using technological advances in microscopy whole genome sequencing microarrays mass spectrometry fluorescent detection methodologies and RNA interference I have tried not to bias this book toward any single model organism and approaches described in the various chapters use yeast Drosophila Xenopus mice plants and cultured mammalian cells **RNA Helicases** Eckhard Jankowsky,2012-06-22 This work integrates the current knowledge about RNA helicases from diverse fields ranging from cell and developmental biology to mechanistic enzymology and structural biology into one useful resource *HDAC/HAT Function Assessment and Inhibitor Development* Oliver H. Krämer,2022-10-18 This fully updated edition provides a series of methods for how best to assess functions of histone deacetylases and acetyltransferases The disease relevance of dysregulated protein deacetylation by overexpressed or aberrantly activated histone deacetylases has spurred an intense search for novel and improved inhibitors of these enzymes as reflected in this collection Expert contributors explore the generation and evaluation of novel histone deacetylase inhibitors and new and improved techniques to assess acetylation dependent molecular mechanisms in vitro and in vivo Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date HDAC HAT Function Assessment and Inhibitor Development Methods and Protocols Second Edition serves as an ideal guide for researchers seeking to further elucidate this vital area of study **R-Loops** Andrés Aguilera,Alexey

Ruzov,2022-06-15 This detailed book compiles a series of laboratory protocols covering the most important aspects of R loop biology Beginning with a range of methods allowing for the detection of DNA RNA hybrids as well as their purification and visualization by electron microscopy the volume continues with methods based on the use of RNase H derived tools to detect DNA RNA hybrids in vitro and in vivo Several protocols permit studying non canonical RNA nucleotides in the R loop context as well as a number of specific protocols devoted to the investigation of R loop topology and their functional roles in the biology of mitochondria and telomeres Finally a large block of chapters is dedicated to different methods allowing genome wide mapping of DNA RNA hybrids in various organisms Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical R Loops Methods and Protocols serves as an ideal resource for those working on R loop homeostasis but also to scientists studying such areas of molecular and cell biology as genome integrity DNA replication and repair chromatin remodeling transcription RNA processing modification and export as well as for researchers elucidating the molecular mechanisms of cancer and genetic diseases

DNA Topoisomerase Protocols Neil Osheroff,Mary-Ann Bjornsti,2008-02-05 Beginning with the Escherichia coli protein or bacterial DNA topoisomerase I an ever increasing number of enzymes have been identified that catalyze changes in the linkage of DNA strands DNA topoisomerases are ubiquitous in nature and have been shown to play critical roles in most processes involving DNA including DNA replication transcription and recombination These enzymes further constitute the cellular targets of a number of clinically important antibacterial and anticancer agents Thus further studies of DNA topology and DNA topoisomerases are critical to advance our understanding of the basic biological processes required for cell cycle progression cell division genomic stability and development In addition these studies will continue to provide critical insights into the cytotoxic action of drugs that target DNA topoisomerases Such mechanistic studies have already played an important role in the development and clinical application of antimicrobial and chemotherapeutic agents The two volumes of DNA Topoisomerase Protocols are designed to help new and established researchers investigate all aspects of DNA topology and the function of these enzymes The chapters are written by prominent investigators in the field and provide detailed background information and step by step experimental protocols The topics covered in Part I DNA Topology and Enzymes range from detailed methods to analyze various aspects of DNA structure from linking number knotting unknotting site specific recombination and decatenation to the overexpression and purification of bacterial and eukaryotic DNA topoisomerases from a variety of cell systems and tissues

[Single Molecule Analysis](#) Iddo Heller,David Dulin,Erwin J.G. Peterman,2023-10-12 This third edition volume expands on the previous editions with new discussions on the latest techniques and developments in the field The chapters in this book are organized into four parts and cover topics such as optical tweezers single molecule fluorescence tools atomic force microscopy magnetic tweezers

applications to virus protein shells unfolding of proteins nucleic acids motor proteins in vivo and in vitro and protocols to establish specific surface interactions and perform force calibration Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough Single Molecule Analysis Methods and Protocols Third Edition is a valuable resource for all researchers who want to learn more about this exciting and still expanding field Chapters 2 7 8 9 12 18 and 19 are available open access under a Creative Commons Attribution 4.0 International License via link springer.com

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