

# Interphase



# Small Gtpase Ran

**David Elliott, Michael Ladomery**



## Small Gtpase Ran:

**The Small GTPase Ran** Mark Rush, Peter D'Eustachio, 2012-12-06 The Ras related nuclear protein Ran is a member of the so called Ras superfamily of small GTP binding proteins and hydrolyzing proteins A variety of edited anthologies related to the Ras superfamily have appeared over the last decade but Ran has been under represented in all of them This under representation is not due to the fact that Ran is unimportant or non abundant It is almost certainly because Ran was discovered and its functions elucidated only recently and that some of these functions may not follow the typical Ras superfamily paradigm Even workers in the field have difficulty keeping up with the Ran literature and most outsiders rarely try even though they may be aware that major breakthroughs regarding the mechanisms of nuclear cytosolic transport mitosis and the maintenance of nuclear structure have depended upon an understanding of Ran function The Small GTPase Ran is meant to provide specialists with a concise summary of some of the recent research in this area along with background describing its initial identification and early characterization

**Ras Superfamily Small G Proteins: Biology and Mechanisms 2** Alfred Wittinghofer, 2014-09-26 This second of two volumes discusses subfamily proteins which function in molecular and vesicular transport mechanisms inside the cell In this volume the focus lies on the Rab Ran and Arf subfamily members As in Volume 1 the book is written by international renowned scientists in the field of small G proteins In elaborate reviews biochemistry structure function and G protein effector interactions are described Together with Volume 1 this book provides an comprehensive state of the art work on small G proteins GTPases It is written for Graduates and Professors in Biochemistry and Cell Biology interested in the mechanism and function of small G proteins but are extremely valuable for those who want to move into the field

*Small GTPases and Their Regulators* William Edward Balch, Channing J. Der, Alan Hall, 1995 *Small GTPases in Disease, Part B*, 2008-04-01 The critically acclaimed laboratory standard for more than 40 years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with over 400 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Methods in Enzymology* is now available online at ScienceDirect full text online of volume 1 onward

*Regulators and Effectors of Small GTPases: Rho Family*, 2006-02-21 The Ras superfamily 150 human members encompasses Ras GTPases involved in cell proliferation Rho GTPases involved in regulating the cytoskeleton Rab GTPases involved in membrane targeting fusion and a group of GTPases including Sar1 Arf Arl and dynamin involved in vesicle budding fission These GTPases act as molecular switches and their activities are controlled by a large number of regulatory molecules that affect either GTP loading guanine nucleotide exchange factors or GEFs or GTP hydrolysis GTPase activating proteins or GAPs In their active state they interact with a continually increasing functionally complex array of downstream effectors Since the last *Methods in Enzymology* volume on this topic in 2000 Rho GTPases have continued to

receive a huge amount of attention The human genome sequence has revealed the full extent of the Rho GEF and Rho GAP families over 80 members for each and the challenge of identifying the molecular interactions and cellular pathways influenced by each of these regulators is a daunting prospect This new volume Regulators and Effectors of Small GTPases Rho Family describes some of the methods currently being used to examine Rho family GTPase regulation at the biochemical and cellular level Describes the methods currently being used to examine Rho family GTPase regulation at the biochemical and cellular levels Includes new imaging techniques that revolutionize the ability to visualize GTPase activities Over 150 international contributors

**GTPases** Alan Hall, 2000 GTPases are molecular switches that are used to control biochemical pathways This book describes the properties and cellular roles of all the major families of GTPases All cells use GTPases to regulate the delivery of amino acids to the ribosome during protein synthesis but eukaryotes with their complex and compartmentalized environment have exploited the versatility of GTPases to a much greater extent In particular GTPases play a central role in regulating signal transduction pathways activated by extracellular signals and in regulating the trafficking of proteins between different organelles It is not surprising therefore that GTPases have become a center of attention for those studying the control of proliferation differentiation cell polarity cell movement and vesicle and protein trafficking This book provides a complete guide to this area and should be essential reading for cell and molecular biologists biochemists and geneticists interested in these contemporary problems

**GTPase Protocols** Ed Manser, Thomas Leung, 2008-02-03 In the last 10 years researchers have firmly established key roles for R related GTPases in almost every aspect of cell biology In the 1980s the pro oncogene Ras itself was the focus of interest though in the 1990s this shifted to the increasing variety of Ras related proteins In this new decade much yet needs to be done to establish the role for all the small GTPases now uncovered by the human genome project In particular these GTPases need to be understood in the appropriate biochemical and cellular contexts In the process of trying to uncover the role of these versatile proteins a variety of novel techniques and methodologies has been developed These now enable investigators to move easily within a diversity of fields ranging from structural studies to real time in vivo analysis of a GTPase In recognition of the need for access to key background methodologies GTPase Protocols The Ras Superfamily is devoted to techniques that are presently widely used and that will continue to be the standard for researchers worldwide Each chapter is aimed at supplying detailed methodologies to allow reproduction in any laboratory while also providing the general principles on which the methods are based Some of the techniques grouped in the first section apply broadly to small GTPases whereas others in Part II are more applicable within each GTPase subfamily

**Cancer Biology and the Nuclear Envelope** Eric C. Schirmer, Jose I. de las Heras, 2014-02-22 Nuclear envelope NE defects have been linked to cancer biology since the mid 1800s but it was not until the last few years that we have begun to understand these historical links and to realize that there are myriad ways that the NE impacts on tumorigenesis The NE is a complex double membrane system that encloses the genome while providing structural support

through the intermediate filament lamin polymer and regulating protein mRNA trafficking and signaling between the nucleus and cytoplasm via the nuclear pore complexes NPCs These functions already provide some mechanisms for NE influences on cancer biology but work in the past few years has elucidated many others Lamins and many recently identified NE transmembrane proteins NETs have been now shown to function in DNA repair regulation of cell cycle and signaling apoptosis cell migration in metastasis and nuclear architecture and morphology This volume presents a comprehensive overview of the wide range of functions recently identified for NE proteins and their relevance in cancer biology providing molecular mechanisms and evidence of their value as prognostic and diagnostic markers and suggesting new avenues for the treatment of cancer Indeed some of these recent links are already yielding promising therapies such as the current clinical trial of selective inhibitors of the nuclear export factor exportin in certain types of leukemia melanoma and kidney cancer

*Nuclear Envelope* David Evans,Chris Hutchison,John Bryant,2004-08-02 The Nuclear Envelope brings together the major current topics in nuclear envelope structure transport transcriptional regulation and cell signaling The volume is divided into four sections 1 Proteins of the nuclear envelope including nuclear envelope proteomics structure and function 2 Nuclear pores and transport at the nuclear envelope including pore complex structure assembly and function and import and export pathways 3 Nuclear envelope dynamics including dynamics of lamina assembly and disassembly 4 Nuclear signaling and transcription regulation including signaling to the nucleus and spectrin repeat proteins and their implications or communication between the nucleus and cytoplasm      **International Review of Cytology** ,2002-05-16 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume contains the following articles Interpretations of Mutants in Leaf Morphology Regulation of Nuclear Import and Export by the GTPase RAN The Role of Growth Factors in Tooth Development Actin Dynamics in Platelets Photoreceptor Renewal and Specification of Developmental Fates in Ascidian Embryos Interpretation of Mutants in Leaf Morphology Genetic Evidence for a Compensatory System in Leaf Morphogenesis Regulation of Nuclear Import and Export by the GTPase Ran The Role of Growth Factors in Tooth Development Actin Dynamics in Platelets Photoreceptor Renewal A Role for Perepherin rds Specification of Developmental Fates in Ascidian Embryos Maternal Determinants and Signaling Molecules      **Nuclear Pore Complexes and Nucleocytoplasmic Transport - Methods** ,2014-05-20 Volume 122 of Methods in Cell Biology describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems including mammalian cells Xenopus C elegans yeast The volume enables investigators to analyze nuclear pore complex structure assembly and dynamics to evaluate protein and RNA trafficking through the nuclear envelope and to design in vivo or in vitro assays

appropriate to their research needs Beyond the study of nuclear pores and transport as such these protocols will also be helpful to scientists characterizing gene regulation signal transduction cell cycle viral infections or aging The NPC being one of the largest multiprotein complexes in the cell some protocols will also be of interest for people currently characterizing other macromolecular assemblies This book is thus designed for laboratory use by graduate students technicians and researchers in many molecular and cellular disciplines Describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems mammalian cells *Xenopus* *C. elegans* yeast Chapters are written by experts in the field Cutting edge material

**Molecular Biology of RNA** David Elliott, Michael Ladomery, 2017-01-31 RNA plays a central and until recently somewhat underestimated role in the genetics underlying all forms of life on earth This versatile molecule not only plays a crucial part in the synthesis of proteins from a DNA template but is also intrinsically involved in the regulation of gene expression and can even act as a catalyst in the form of a ribozyme This latter property has led to the hypothesis that RNA rather than DNA could have played an essential part in the origin of life itself This landmark text provides a systematic overview of the exciting and rapidly moving field of RNA biology Key pioneering experiments which provided the underlying evidence for what we now know are described throughout while the relevance of the subject to human disease is highlighted via frequent boxes For the second edition of *Molecular Biology of RNA* more introductory material has been incorporated at the beginning of the text to aid students studying the subject for the first time Throughout the text new material has been included particularly in relation to RNA binding domains non coding RNAs and the connection between RNA biology and epigenetics Finally a new closing chapter discusses how exciting new technologies are being used to explore current topical areas of research

**Ecdysone: Structures and Functions** Guy Smaghe, 2009-03-06 Ecdysone is the steroidal prohormone of the major insect moulting hormone 20 hydroxyecdysone It groups with its homologues the steroidal molting hormones in arthropods but they also occur in other phyla where they can play different roles Besides ecdysteroids appear in many plants mostly as protection agents toxins or antifeedants against herbivorous insects The important developments and achievements in modern ecdysone science since the first edition in 1989 by J Koolman have led to this new revised expanded and retitled reference work New chapters in this edition include RNA interference the ecdysone receptor crystal structures and structure activity relationships etc Each article may also be read independently as a review of that particular subject Complete up to date coverage of many important topics the book is divisible into five conceptual areas 1 Distribution and diversity of ecdysteroids in the two kingdoms is still basis 2 In the post genomic era ecdysteroid genetic hierarchies in insect growth and reproduction 3 Role of cross talk of genes and growth factors in ecdysteroid titers and signaling 4 Ecdysteroids function through nuclear and membrane receptors and 5 Ecdysteroids in modern agriculture medicine doping and ecotoxicology Each of the 23 chapters is written by scientists active in the reviewed research area and a truly distinguished international team of contributors has been chosen Ecdysone

Structures and Functions will be of immense use and contains essential information for scientists students and professionals alike in entomology endocrinology physiology chemistry and agricultural plant biomedicine and environmental sciences

Optical Probes in Biology Jin Zhang, Sohun Mehta, Carsten Schultz, 2016-04-19 Optical probes particularly the fluorescent varieties enable researchers to observe cellular events in real time and with great spatial resolution Optical Probes in Biology explores the diverse capabilities of these powerful and versatile tools and presents various approaches used to design develop and implement them The book examines the use Protein Prenylation, Part A, 2011-07-10 This volume of The Enzymes features high caliber thematic articles on the topic of glycosylphosphatidylinositol GPI anchoring of proteins Contributions from leading authorities Informs and updates on all the latest developments in the field **Protein**

**Prenylation** Fuyuhiko Tamanoi, Christine A. Hrycyna, Martin O. Bergo, 2011 This volume of The Enzymes features high caliber thematic articles on the topic of glycosylphosphatidylinositol GPI anchoring of proteins Contributions from leading authorities Informs and updates on all the latest developments in the field Proteomics of Spermatogenesis G. S. Gupta, 2006-07-02 Recent developments of experimental techniques in cellular and molecular biology have made it possible to understand the molecular biology of male gametogenesis in greater detail This book focuses on the description of specialized proteins which are dominantly and or specifically expressed in germ cells and localized in spermatozoa There is an urgent need to classify proteins of spermatogenic cells with a view of their functions and their applications in the regulation of fertility and in understanding infertility The understanding of structural properties of male germ cell specific proteins can offer vulnerable points for targeted intervention in testis without generalized effects on stages of spermatogenesis Besides targeted action in male germ cells sperm specific proteins and polypeptides may also offer potential application in the development of a contraceptive vaccine *Plasticity of cell polarity across scales in development and disease* Eurico Morais-de-Sá, Josana Rodriguez, Alexander Ludwig, Jens Januschke, 2023-10-27 Progress in Botany Karl Esser, 2012-12-06 With one volume each year this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences The present volume includes reviews on genetics cell biology physiology comparative morphology ecology and vegetation science **The Biogenesis of Cellular Organelles** Chris Mullins, 2007-03-06 The Biogenesis of Cellular Organelles represents a comprehensive summary of recent advances in the study of the biogenesis and functional dynamics of the major organelles operating in the eukaryotic cell This book begins by placing the study of organelle biogenesis in a historical perspective by describing past scientific strategies theories and findings and relating these foundations to current investigations Reviews of protein and lipid mediators important for organelle biogenesis are then presented and are followed by summaries focused on the endoplasmic reticulum Golgi lysosome nucleus mitochondria and peroxisome

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