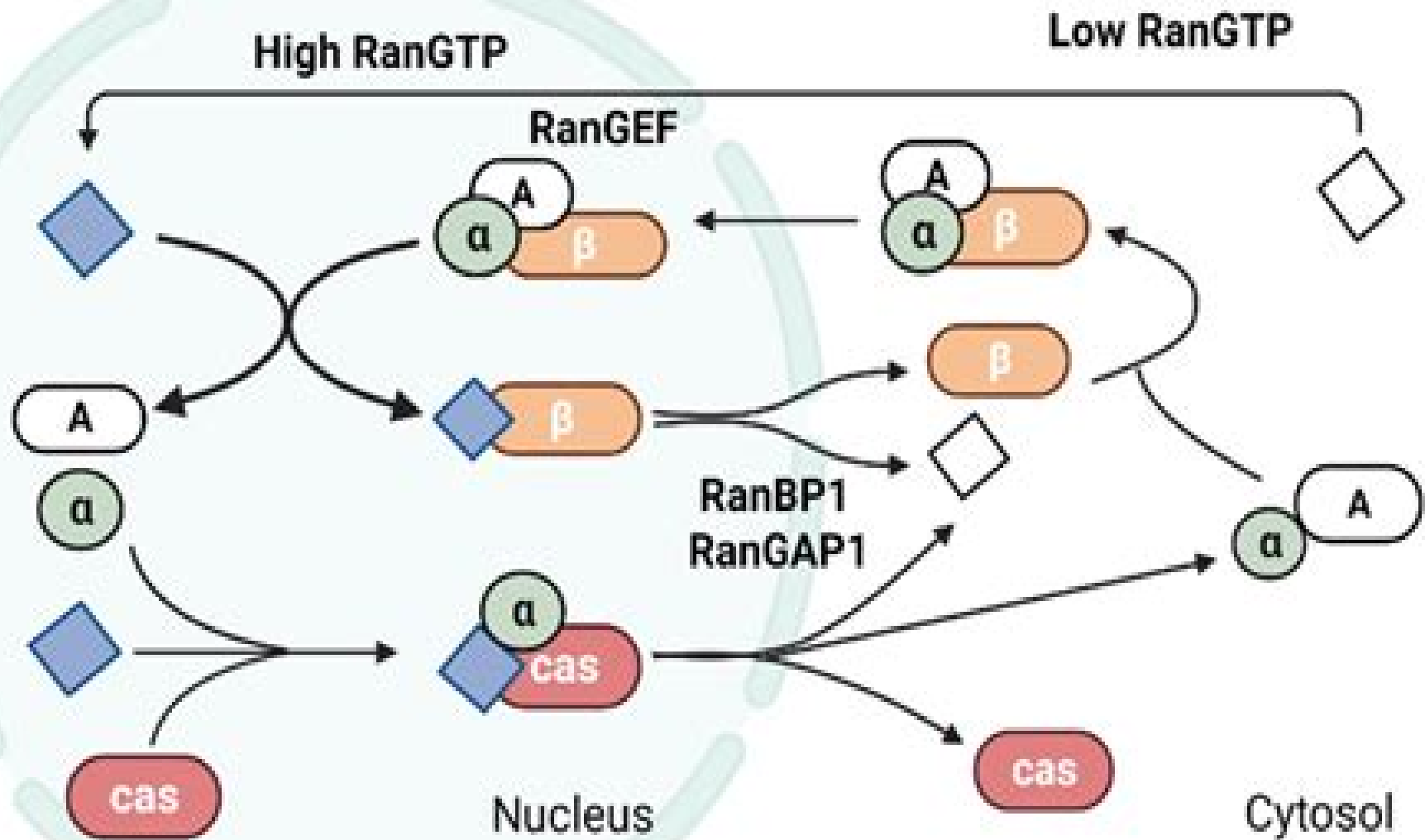


Interphase



Small Gtpase Ran

SJ Ball



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 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

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

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 Small GTPases and Their Regulators William Edward Balch, Channing J. Der, Alan Hall, 1995

Targeted Therapies for Glioblastoma: A Critical Appraisal Shiv K. Gupta, Sani H. Kizilbash, Thierry M. Muanza, 2020-01-22 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 Perypherin rds Specification of Developmental Fates in Ascidian Embryos Maternal Determinants and Signaling Molecules

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