

RAS

Veronica Aran,Piero Crespo,Kwang-jin Cho,Jin Rui Liang

RAS: Past, Present, and Future ,2022-01-29 Advances in Cancer Research, volume 153 provides a timely review of the biology, biochemistry, and current approaches to therapeutically target the RAS oncoprotein, the most frequently mutated oncogene family in human cancers. 2021 saw the approval of the first direct RAS inhibitor (sotorasib) for use in treating non-small cell lung cancers harboring KRAS(G12C) mutations. The successful approval and use of this drug highlights that the once “undruggable RAS is indeed pharmacologically tractable. This volume provides an overview of efforts to develop additional approaches to therapeutically target oncogenic RAS. In addition, the reader will find excellent reviews on the history and research efforts to understand the biochemistry and oncogenic activity of RAS in human cancers. Overview of the history and development of efforts to pharmacologically inhibit RAS. Discussion of the biochemistry and biology of different RAS mutant proteins and how this might be effectively leveraged in the development of anti-RAS therapies. Up-to-date reviews of the cutting-edge approaches to develop new anti-RAS pharmacologics.

The Protective Arm of the Renin Angiotensin System (RAS) Thomas Unger,U. Muscha Steckelings,Robson Augusto Souza dos Santos,2015-04-18 The Protective Arm of the Renin Angiotensin System: Functional Aspects and Therapeutic Implications is the first comprehensive publication to signal the protective role of a distinct part of the renin-angiotensin system (RAS), providing readers with early insight into a complex system which will become of major medical importance in the near future. Focusing on recent research, The Protective Arm of the Renin Angiotensin System presents a host of new experimental studies on specific components of the RAS, namely angiotensin AT2 receptors (AT2R), the angiotensin (1-7) peptide with its receptor Mas, and the enzyme ACE 2, which exert significant beneficial, health-promoting actions by counterbalancing the well-known harmful arm of the RAS with its classical angiotensin AT1 receptor. This innovative concept of the protective arm of the RAS, examined in this reference, represents an indispensable background and will be a strong support for biomedical students, researchers, cardiologists, surgeons, nephrologists, diabetologists, and endocrinologists, as well as any other physician or researcher concerned with RAS physiology, pathophysiology and clinical implications. Provides a complete understanding of the protective side of the Renin Angiotensin System (RAS) involving angiotensin AT2 receptor, ACE2, and Ang(1-7)/Mas receptor Combines the knowledge of editors who pioneered research on the protective renin angiotensin system including; Dr. Thomas Unger, one of the founders of AT2 receptor research; Dr. Ulrike M. Steckelings, who contributed significantly to first preclinical studies with a novel specific AT2-agonist, and Dr. Robson Santos who pioneered research on angiotensin-(1-7) and its receptor Mas. Shows that the protective RAS axes are able to ameliorate the course of several cardiovascular, renal, metabolic and neurological diseases Provides the basis for the understanding of a novel therapeutic approach to stimulate components of the protective arm of the RAS.

RAS Family GTPases Channing Der,2007-04-29 Since 1982, Ras proteins have been the subject of intense research investigation by the biomedical research community. The wide interest in Ras has been stimulated for three key reasons. This book features chapters contributed by leading investigators in the field that highlight the current state-of-the art in Ras biochemistry, structure and biology. This book is an excellent reference for students in the biomedical sciences and for investigators in the field.

Ras and Cancer in the 21st Century Linda VanAelst,Frank McCormick,2018 Ras proteins are key molecular switches in cell signaling pathways that, when activated, trigger cell growth and division. Mutations that produce abnormally active Ras proteins are common in human cancers, particularly those of the pancreas, lung, and colon. These cancers can be difficult to treat because Ras oncoproteins have long been considered 'undruggable.' Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Medicine covers the recent progress that has been made in understanding Ras biology, how Ras activation leads to tumorigenesis, and ways in which oncogenic Ras signaling may be targeted therapeutically. The contributors review the biochemical characteristics of the different Ras isoforms (HRAS, KRAS, and NRAS), their main effectors and signaling pathways, and the mutations that lead to their constitutive activation. Recent work showing that some Ras oncoproteins may be effectively inhibited by small molecules is covered, as is work on alternative targets (e.g., enzymes that catalyze posttranslational modifications of Ras) and inhibitors (e.g., nucleic acids). The authors also discuss how organoids and mouse models are being used to study tumor progression and therapeutic efficacy. This volume is therefore essential reading for all cancer biologists, cell and molecular biologists, and pharmacologists concerned with understanding and treating Ras-driven cancers.

Conquering RAS Asfar Azmi,2016-08-11 Conquering RAS: From Biology to Cancer Therapy provides introductory knowledge on how modern RAS biology is taking shape in light of newer technological development. Each chapter is written in a manner that emphasizes simplicity and readability for both new investigators and established researchers. While RAS biology has been intensively studied for more than three decades, we are yet to see any effective therapeutics that could interfere in the signaling cascade regulated by this master oncogene. The book covers topics ranging from basic RAS biology, to translational biology and drug discovery applications. These topics will be appealing to basic researchers working in labs who seek deeper understanding of the modern concepts in RAS research. On the other side, the oncologist at the patient's bedside will find the book useful as they routinely face the daunting task of treating patients that predominantly have a disease driven by oncogenic KRAS. Brings together wide ranging topics in RAS basic and translational biology for the scientific and clinical communities Showcases recent advancements in RAS research under one comprehensive volume Includes video clips, color illustrations, and important website links to facilitate a clear understanding of RAS in cancer research

Regulators and Effectors of Small GTPases: Ras Family ,2006-06-07 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, the study of Ras Family GTPases has witnessed a plethora of new directions and trends. With regards to the founding member of the Ras superfamily, the study of Ras in oncogenesis has seen the development and application of more advanced model cell culture and animal systems. The discovery of mutationally activated B-Raf in human cancers has injected renewed interest in this classical effector pathway of Ras. Includes a database for Ras family proteins and their effectors and regulators Complimentary to volume 406 coverage of the Rho family Over 150 international contributors

The ras Superfamily of GTPases (1993) Juan Carlos Lacal,Frank Patrick McCormick,2017-11-22 The ras Superfamily of GTPases presents the most comprehensive compilation of information available regarding aspects of the putative function of small ras-related GTPases. The book's chapters were written by the world's most prominent scientists in this field and cover such topics as the structure and properties of ras proteins, ras function, the ras superfamily in general, and the functional regulation of ras and ras-related GTPases. The book will benefit cell biologists, oncologists, neurobiologists, molecular biologists, and others interested in the topic.

Regulators and Effectors of Small GTPases, Part G: Ras Family II ,2001-06-05 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 more than 300 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. This volume and its companions (Volumes 255, 256, 257, and the forthcoming 325, 329, and 332) cover all biochemical and biological assays currently in use for analyzing the role of small GTPases in the above-mentioned aspects of cell biology at the molecular level.

Regulators and Effectors of Small GTPases, Part F: Ras Family I ,2001-04-17 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 more than 300 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. This volume and its companions (Volumes 255, 256, 257, and the forthcoming 325 and 329) cover all biochemical and biological assays currently in use for analyzing the role of small GTPases in these aspects of cell biology at the molecular level.

The City of Ugarit at Tell Ras Shamra Marguerite Yon,2006 However, by that time the site had already seen more than 6,000 years of occupation, and the data from Ras Shamra - Ugarit thus have become important as a reference point for the early history of the Near East along the Levantine coast and the eastern Mediterranean.

Ras Activity and Signaling Ignacio Rubio,Ian Prior,2021-05-12 This volume compiles new experimental approaches and concepts focusing mostly, but not solely, on ways to manipulate and regulate Ras activity and its downstream signaling output. Chapters detail standard methodologies, biochemical methods, Ras processing trafficking and localization, Ras signaling and inhibition, and in vivo models for studying Ras function. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, application details for both the expert and non-expert reader, and tips on troubleshooting and avoiding known pitfalls. Authoritative and accessible, Ras Activity and Signaling: Methods and Protocols aims to provide support and guidance to lab workers in their work on Ras GTPases and in the design of new projects requiring novel methodologies.

The Krt Text in the Literature of Ras Shamra John Gray,1964

Regulation of the RAS Signalling Network Hiroshi Maruta,Antony Burgess,2013-03-07 This book, which was written by the current leaders in the field of Ras research, provides the readers with the most comprehensive and up-to-date view of the major oncogene Ras. This volume is valuable not only for university students in molecular biology, biochemistry or medicine, but also for senior scientists currently conducting cancer research.

The Superfamily of ras-Related Genes Demetrios A. Spandidos,2013-03-08 since the earliest results on the linkage between ras activation and cell transformation appeared a vast amount of additional information has been generated which emphasizes the importance of ras-related genes in membrane trafficking, cell proliferation, differentiation and cancer. These advances led to the development of new strategies for the diagnosis, prognosis and prevention of cancer. Ras-related genes appear to be central to the mechanism of transformation by other oncogenes and therefore constitute a focal point upon which attempts to intervene in the process of carcinogenesis will be concentrated. The present volume contains the contributions to the NATO Advanced Research Workshop on the The Superfamily of ras-Related Genes held in Agia Pelagia, Heraklion, Crete, Greece, May 1991. At this meeting the leading researchers in this field carne together to discuss the most recent progress in analysis of biological function of the ras-related genes. As an organizer I feel that the Workshop was a success, and would like to thank all the participants and the contributors to this volume. I thank the NATO Scientific Affairs Division, Brussels, the Greek Ministry of Industry, Energy and Technology, the International Center for Cancer Research, the National Hellenic Research Foundation and the Medical School, University of Crete for sponsoring the Meeting.

Ras and other GTPases in Cancer: From Basic to Applied Research Veronica Aran,Piero Crespo,Kwang-jin Cho,Jin Rui Liang,2022-01-13

Ras Superfamily Small G Proteins: Biology and Mechanisms 1 Alfred Wittinghofer,2014-09-22 This first of two volumes provides a general overview of the genetics, structure, mechanism and regulation of the Ras superfamily proteins and describes in detail the signaling pathways and processes regulated by specific members of this family. The focus of this first volume is on the Rho and Ras subfamily of small G proteins. Renowned scientists provide insights into the biochemistry of the classical and non-classical small G-protein family members, their spatio-temporal regulation, their effectors and their roles in health and disease. Together with Volume 2, this book provides a comprehensive and state-of-the-art work on small G-proteins (GTPases). It is intended for graduates and professors in biochemistry and cell biology already working on small G-proteins (small GTPases), but also offers an extremely valuable resource for those readers who are new to the field.

Oncogenic RAS-dependent Reprogramming of Cellular Plasticity Alessandro Rimessi,Georgia Konstantinidou,2020-06-15

United States of America V. Ras ,1982

The Superfamily of Ras-Related Genes Demetrios A. Spandidos,1991 Proceedings of a NATO ARW held in Aghia Pelagia, Crete, Greece, May 17-21, 1991

The Sulphur Mines of Ras-el-Gimse and the Lawsuit of the "Societe Soufriere" of Egypt ,1887

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Table of Contents RAS

- Considering Fiction vs. Non-Fiction
- Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an RAS
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from RAS
 - Personalized Recommendations

- 1. Understanding the eBook RAS
 - The Rise of Digital Reading RAS
 - Advantages of eBooks Over Traditional Books
- 2. Identifying RAS
 - Exploring Different Genres

- RAS User Reviews and Ratings
- RAS and Bestseller Lists
- 5. Accessing RAS Free and Paid eBooks
 - RAS Public Domain eBooks
 - RAS eBook Subscription Services
 - RAS Budget-Friendly Options
- 6. Navigating RAS eBook Formats
 - ePub, PDF, MOBI, and More
 - RAS Compatibility with Devices
 - RAS Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of RAS
 - Highlighting and Note-Taking RAS
 - Interactive Elements RAS
- 8. Staying Engaged with RAS
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers RAS
- 9. Balancing eBooks and Physical Books RAS
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection RAS
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine RAS
 - Setting Reading Goals RAS
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of RAS
 - Fact-Checking eBook Content of RAS
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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