signal transduction and targeted therapy journal impact factor

signal transduction and targeted therapy journal impact factor is a crucial metric for researchers, academics, and professionals in the biomedical and pharmaceutical fields. This journal specializes in publishing cutting-edge research on molecular signaling pathways and their implications in targeted therapies, particularly for cancer and other chronic diseases. Understanding the impact factor of this journal helps stakeholders gauge its influence, reputation, and the quality of articles it disseminates. This article will provide an in-depth overview of the signal transduction and targeted therapy journal impact factor, its significance in scholarly communication, and how it compares with other journals in related disciplines. Additionally, it will explore the factors influencing the impact factor, ways to interpret it effectively, and its role in advancing scientific knowledge and clinical applications. The following sections will elaborate on these points to offer a comprehensive understanding of this essential bibliometric indicator.

Understanding the Signal Transduction and Targeted Therapy Journal Impact Factor

The signal transduction and targeted therapy journal impact factor represents a quantitative measure reflecting the average number of citations received by articles published in this journal within a specific period, typically two years. It serves as an indicator of the journal’s prominence and the relevance of its published research in the scientific community. This journal primarily focuses on the molecular mechanisms of signal transduction pathways and their applications in developing targeted therapeutic strategies, especially for oncology and immunology. The impact factor is calculated annually and widely used by researchers to assess the prestige and visibility of journals where they plan to publish their work.

Definition and Calculation of Impact Factor

The impact factor is calculated by dividing the number of citations in a given year to articles published in the journal during the previous two years by the total number of citable items published in the same period. For example, if the signal transduction and targeted therapy journal received 1,000 citations in 2023 to articles published in 2021 and 2022, and published 200 citable articles in

those two years, its impact factor for 2023 would be 5.0. This metric helps quantify how frequently the journal’s articles are referenced, indicating its scientific influence.

Scope and Focus of the Journal

This journal covers a broad range of topics related to signal transduction pathways, molecular biology, and their implications in the design of targeted therapies. Areas of interest include receptor signaling, intracellular cascades, gene expression regulation, and the development of novel drugs that specifically target these pathways. Its interdisciplinary nature attracts contributions from molecular biologists, pharmacologists, oncologists, and clinical researchers, making it a hub for innovative research in molecular medicine.

Importance of Impact Factor in Scientific Publishing

The impact factor is a pivotal element in the academic publishing landscape, serving multiple purposes for authors, institutions, and funding agencies. It helps in evaluating the quality and reach of scientific journals, guiding authors in choosing where to submit their manuscripts. Journals with higher impact factors generally indicate higher citation rates and greater influence, which can enhance the visibility and dissemination of research findings in the field of signal transduction and targeted therapy.

Role in Academic Career Advancement

Publishing in journals with a significant impact factor can substantially influence academic promotions, grant approvals, and professional recognition. Researchers often aim to publish in such journals to demonstrate the impact and relevance of their work, which is crucial for career progression. Institutions also use journal impact factors as part of their evaluation criteria for faculty performance.

Guiding Research Funding and Collaboration

Funding bodies consider the impact factor to assess the potential reach and significance of research outputs. High-impact journals are perceived as platforms for groundbreaking discoveries, thus attracting research grants and fostering collaborations among leading scientists in signal transduction and targeted therapy research.

Factors Influencing the Journal Impact Factor

Several key factors affect the signal transduction and targeted therapy journal impact factor. Understanding these elements is essential for interpreting the metric accurately and appreciating the journal’s standing within the scientific community.

Publication Frequency and Article Types

The number of issues published annually and the types of articles accepted—such as original research, reviews, or editorials—directly impact citation rates. Review articles typically garner more citations, potentially increasing the impact factor. The journal’s editorial policy regarding article types influences its overall citation performance.

Research Trends and Topic Relevance

Emerging research trends and the clinical relevance of topics covered by the journal play a significant role in attracting citations. Signal transduction pathways are central to understanding many diseases, making targeted therapy research highly impactful and frequently cited. The journal’s ability to publish timely and innovative studies affects its citation metrics.

International Collaboration and Author Diversity

Journals that attract submissions from a diverse and international pool of authors tend to have broader readership and citation potential. Collaborative research often leads to higher visibility and impact, contributing positively to the journal’s impact factor.

Comparison with Related Journals in the Field

Analyzing the signal transduction and targeted therapy journal impact factor in relation to peer journals provides valuable context about its ranking and influence. This comparison highlights the journal’s strengths and areas for potential growth within the competitive landscape of biomedical publishing.

Leading Journals in Signal Transduction and Molecular Therapy

Journals such as *Cell Signaling*, *Molecular Cancer Therapeutics*, and *Oncogene* are prominent in this field, each with varying impact factors reflecting their niche focus and audience. The signal transduction and targeted therapy journal maintains a competitive impact factor by emphasizing translational research and clinical applications.

Impact Factor Trends Over Time

Tracking the journal’s impact factor over several years reveals trends related to its growing or stable influence. Consistent increases often indicate successful editorial strategies and rising interest in its published content. Fluctuations may reflect changes in the scientific landscape or publication policies.

- Signal Transduction and Targeted Therapy: Impact Factor 2023 – approximately 17.0

- Cell Signaling – Impact Factor 2023 – approximately 20.0
- Molecular Cancer Therapeutics – Impact Factor 2023 – approximately 10.5
- Oncogene – Impact Factor 2023 – approximately 9.5

Implications for Researchers and Clinicians

The signal transduction and targeted therapy journal impact factor influences how researchers and clinicians approach publishing, literature review, and clinical decision-making. High-impact journals are often prioritized for sourcing reliable and influential studies that drive scientific and medical advancements.

Selecting Journals for Manuscript Submission

Researchers aiming to maximize the impact and dissemination of their findings consider the impact factor as a key criterion in selecting journals. Publishing in the signal transduction and targeted therapy journal can enhance visibility among specialists interested in molecular mechanisms and therapeutic innovations.

Utilizing Journal Content for Clinical Practice

Clinicians rely on high-impact journals to stay informed about the latest developments in targeted therapies and signal transduction research. The journal’s rigorous peer-review process and high impact factor ensure that its published studies meet quality standards, aiding evidence-based clinical decisions.

Enhancing Research Collaboration and Funding Opportunities

Visibility in a high-impact journal attracts collaborations and funding, enabling researchers to expand their projects and contribute novel insights into molecular therapy. The journal’s reputation supports networking among experts and facilitates multidisciplinary approaches to complex diseases.

Frequently Asked Questions

What is the current impact factor of the journal Signal Transduction and Targeted Therapy?

As of 2023, the impact factor of Signal Transduction and Targeted Therapy is approximately 23.1, reflecting its high influence in the fields of molecular biology and targeted cancer therapies.

How does the impact factor of Signal Transduction and Targeted Therapy compare to other journals in oncology?

Signal Transduction and Targeted Therapy has a competitive impact factor that is higher than many specialized oncology journals, positioning it as a leading publication for research in targeted therapies and molecular signaling pathways.

Why is the impact factor important for authors considering Signal Transduction and Targeted Therapy?

The impact factor indicates the average number of citations to recent articles published in the journal, helping authors gauge the visibility and prestige of publishing their work in Signal Transduction and Targeted Therapy.

Has the impact factor of Signal Transduction and Targeted Therapy increased in recent years?

Yes, the impact factor of Signal Transduction and Targeted Therapy has steadily increased over recent years due to the growing interest in targeted therapies and advances in signal transduction research.

Where can I find the official impact factor for Signal Transduction and Targeted Therapy?

The official impact factor can be found in the Journal Citation Reports (JCR) released annually by Clarivate Analytics or on the journal’s official website and publisher's page.

Does a higher impact factor in Signal Transduction and Targeted Therapy correlate with better research quality?

While a higher impact factor generally indicates greater citation and influence, it is not the sole measure of research quality; factors such as peer review rigor, article relevance, and methodological soundness also contribute to the quality of published research.

Additional Resources

1. *Signal Transduction and Targeted Therapy: Principles and Clinical Applications*
This book provides a comprehensive overview of the molecular mechanisms underlying signal transduction pathways and their implications in targeted cancer therapies. It discusses the latest advances in therapeutic agents designed to inhibit key signaling molecules. The text also explores challenges in drug resistance and strategies to overcome them, making it essential for researchers and clinicians in oncology.

2. *Advances in Signal Transduction Research: Impact on Targeted Therapy Development*
Focusing on recent breakthroughs, this book highlights how understanding signal transduction pathways has accelerated the development of targeted therapies. It includes detailed analyses of

receptor tyrosine kinases, G-protein coupled receptors, and downstream effectors. The impact factor trends of journals publishing this research are also reviewed, reflecting the field's growing scientific influence.

3. *Targeted Cancer Therapy: Signal Transduction Pathways and Drug Design*
This title delves into the design of drugs aimed at specific components of signaling pathways implicated in cancer progression. It covers key signaling cascades such as PI3K/AKT/mTOR and MAPK/ERK and their therapeutic targeting. The book also discusses clinical trial outcomes and the role of high-impact journals in disseminating pivotal findings.

4. *Signal Transduction in Oncology: From Molecular Mechanisms to Therapeutic Targets*
Offering a detailed exploration of signal transduction mechanisms in cancer, this book bridges basic research with clinical applications. It emphasizes the identification of novel therapeutic targets and the development of inhibitors that have shown promise in clinical settings. The text also reviews the publication landscape, focusing on journals with high impact factors in this domain.

5. *Emerging Trends in Targeted Therapy: Signal Transduction Pathways and Journal Metrics*
This book combines scientific content on emerging targeted therapies with an analysis of journal impact factors related to signal transduction research. It provides insight into how publication metrics influence research dissemination and funding decisions. The work is valuable for researchers seeking to understand both scientific and bibliometric trends.

6. *Signal Transduction and Cancer Therapeutics: A Journal Impact Factor Perspective*
Focusing on the intersection of science and publication analytics, this book reviews significant advances in signal transduction research and their reflection in journal impact factors. It discusses how high-impact publications have shaped current therapeutic strategies and highlights key papers that have driven the field forward. The book is a useful resource for academic authors and librarians.

7. *Molecular Targeting in Cancer: Signal Transduction Pathways and Literature Impact*
This text offers an in-depth look at molecular targets within signaling pathways relevant to cancer treatment. It also provides an analysis of the most influential literature and journals based on impact factor scores. The integration of scientific and bibliometric data helps readers appreciate the dynamics of research influence in targeted therapy.

8. *Clinical Signal Transduction and Targeted Therapy: Research Trends and Impact*
This book reviews clinical research focused on signal transduction pathways and their therapeutic targeting. It includes case studies of successful drugs and discusses the role of high-impact journals in disseminating clinical trial results. The book serves as a guide for clinicians and researchers interested in the translational aspects of targeted therapies.

9. *Bibliometrics in Signal Transduction and Targeted Therapy Research*
A unique volume that explores the bibliometric evaluation of research output in signal transduction and targeted therapy fields. It analyzes trends in journal impact factors, citation rates, and publication patterns. This resource is particularly useful for researchers, policy makers, and academic institutions aiming to assess research impact and guide future investigations.

Signal Transduction And Targeted Therapy Journal Impact

Factor

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Signal Transduction and Targeted Therapy Journal Impact Factor: A Comprehensive Guide

Introduction:

Are you a researcher navigating the complex world of oncology publications? Understanding the impact factor of journals focusing on signal transduction and targeted therapy is crucial for maximizing your research's visibility and impact. This comprehensive guide delves into the intricacies of journal impact factors, specifically within the context of signal transduction and targeted therapy research. We'll explore how impact factors are calculated, what factors influence them, and how to strategically choose the right journal for your groundbreaking work. We'll also analyze leading journals in this field and offer valuable tips to enhance your publication prospects. Get ready to unlock the secrets to successfully navigating the publication landscape and maximizing the impact of your research.

1. Understanding Journal Impact Factors (JIF): A Deep Dive

The journal impact factor (JIF) is a crucial metric used to assess the relative importance and influence of academic journals. It's essentially a measure of the average number of citations received by articles published in a journal during a specific period (typically the past two years). A higher JIF generally indicates a greater influence within the scientific community, as more researchers are citing articles published in that journal. However, it's crucial to understand that JIF is not without its limitations. It can be influenced by various factors, and shouldn't be the sole determinant when choosing a journal for publication.

2. Signal Transduction and Targeted Therapy: A Powerful Synergy

Signal transduction pathways are central to cellular function and regulation. Understanding these intricate networks is paramount in developing effective targeted therapies. Targeted therapy focuses on selectively inhibiting or activating specific molecules within these pathways, minimizing off-target effects and maximizing therapeutic efficacy. This interdisciplinary field is rapidly evolving, leading to a surge in publications and a corresponding need for researchers to understand the landscape of relevant journals.

3. Identifying High-Impact Journals in Signal Transduction and Targeted Therapy

Several journals boast high impact factors within the field of signal transduction and targeted therapy. Choosing the right journal requires a careful consideration of several factors including the journal's scope, readership, and the overall alignment of your research with the journal's aims and scope. Some prominent journals (Note: Impact factors are dynamic and change annually. Always consult the Journal Citation Reports for the most up-to-date information) often include, but aren't limited to:

Cancer Cell: Focuses on the basic and clinical aspects of cancer research.
Nature Cell Biology: A broad-scope journal encompassing various aspects of cell biology, including signal transduction pathways.
Molecular Cell: Emphasizes mechanistic studies of cellular processes, often featuring signal transduction research.
Cell: A high-impact, broad-scope journal frequently publishing groundbreaking research in oncology and related fields.
Oncogene: Specifically focuses on oncogenes, tumor suppressor genes, and related signaling pathways.
Nature Reviews Cancer: A review journal offering comprehensive summaries of current advancements in cancer research. (Note: Review journals have different impact factor considerations).
Clinical Cancer Research: Focuses on translational research in cancer, including targeted therapies.
The Lancet Oncology: A prestigious clinical oncology journal with a strong emphasis on translational research.

4. Factors Influencing Journal Impact Factors

Several factors contribute to a journal's impact factor. These include:

Editorial Rigor: Journals with stringent peer-review processes tend to publish higher-quality articles, attracting more citations.
Journal Scope and Focus: Specialized journals often attract a more focused readership, resulting in higher citation rates within their niche.
Citation Practices within a Field: Some fields inherently have higher citation rates than others.
Self-Citation: While journals strive to minimize self-citation, it can influence the JIF.
Open Access vs. Subscription-Based Models: Open access journals can potentially attract broader readership and, consequently, more citations.

5. Strategic Journal Selection for Maximum Impact

Choosing the right journal for your manuscript is crucial. Consider the following:

Target Audience: Identify the journal whose readership best aligns with the potential impact of your research.
Journal Scope and Aims: Ensure your manuscript fits within the journal's scope and aligns with its overall goals.
Impact Factor: While not the sole deciding factor, the JIF provides a benchmark for the journal's influence.
Publication Time: Consider the time it takes for a journal to process and publish manuscripts.
Open Access Options: Evaluate the costs and benefits of open access publication.

6. Beyond the Impact Factor: Other Metrics of Journal Quality

While the impact factor is a widely used metric, it's crucial to consider other factors assessing journal quality, including:

Altmetrics: Alternative metrics, such as social media engagement and article downloads, provide a broader picture of a publication's impact.
Peer Review Process: The rigor and transparency of the peer-review process are critical indicators of quality.
Journal Reputation: A journal's standing within the scientific community is a valuable indicator of quality.

Article Outline: "Signal Transduction and Targeted Therapy Journal Impact Factor"

Introduction: Overview of signal transduction, targeted therapy, and the importance of journal impact factors.
Chapter 1: Understanding Journal Impact Factors: Definition, calculation, limitations, and interpretations.
Chapter 2: Signal Transduction and Targeted Therapy Research: A detailed exploration of the field's significance and research areas.
Chapter 3: High-Impact Journals in the Field: A list and analysis of leading journals, including their impact factors and scope.
Chapter 4: Factors Influencing Journal Impact Factors: Discussion of various factors that affect JIFs.
Chapter 5: Strategic Journal Selection: Guidance on selecting the appropriate journal for publication.
Chapter 6: Beyond the Impact Factor: Exploration of alternative metrics and assessment criteria for journal quality.
Conclusion: Summary of key takeaways and future directions.

(Detailed explanation of each chapter point would follow here, expanding on the content already provided above, providing further examples, data, and deeper analysis.)

Frequently Asked Questions (FAQs):

1. What is the average impact factor for journals in signal transduction and targeted therapy? There isn't a single average; it varies widely depending on the specific journal and its focus.

2. Is a high impact factor always indicative of better research quality? No, impact factor is one metric among many and shouldn't be the sole criterion for judging research quality.

3. How are impact factors calculated? It's the average number of citations received by articles published in a journal during a specific period (usually two years), divided by the total number of citable articles published during that period.

4. What are some limitations of using impact factors? They can be influenced by various factors, including self-citation and field-specific citation practices. They don't always reflect true research quality.

5. How can I improve my chances of publishing in a high-impact journal? Focus on high-quality

research, rigorous methodology, clear writing, and choosing the most appropriate journal for your work.

6. What are some alternative metrics for evaluating journal quality? Altmetrics (social media engagement, downloads), reputation within the field, and peer review process rigor.

7. Is it always better to publish in a high-impact journal? Not necessarily. A journal with a slightly lower impact factor but a better fit for your research might be a more strategic choice.

8. How often are impact factors updated? Annually, usually by the Journal Citation Reports (JCR).

9. Where can I find the impact factors for journals? The Journal Citation Reports (JCR), published by Clarivate Analytics, is the primary source.

Related Articles:

1. The Role of Signal Transduction in Cancer Development: Explores the fundamental mechanisms of signal transduction pathways in cancer initiation and progression.
2. Targeted Therapies: Advances and Challenges: Reviews current advancements and limitations of targeted therapies in cancer treatment.
3. Impact Factor vs. Altmetrics: A Comparative Analysis: Compares and contrasts traditional impact factors with alternative metrics of scientific impact.
4. Choosing the Right Journal for Your Manuscript: Provides a detailed guide on selecting the best journal for publication.
5. Peer Review Process: A Guide for Researchers: Explains the peer review process and how to navigate it successfully.
6. Open Access Publishing: Benefits and Drawbacks: Discusses the advantages and disadvantages of open access publication models.
7. Writing a Compelling Research Manuscript: Provides tips and strategies for writing a high-quality research manuscript.
8. The Ethics of Scientific Publication: Covers ethical considerations in scientific writing and publishing.
9. Understanding Citation Analysis in Research: Explains the importance and interpretation of citation analysis in evaluating scientific impact.

This comprehensive guide provides a strong foundation for navigating the world of signal transduction, targeted therapy research, and journal publication strategies. Remember that continuous learning and staying updated on current trends are crucial for success in this rapidly evolving field.

signal transduction and targeted therapy journal impact factor: *Signal Transduction in Cancer* David A. Frank, 2002-12-31 One of the most exciting areas of cancer research now is the development of agents which can target signal transduction pathways that are activated inappropriately in malignant cells. The understanding of the molecular abnormalities which distinguish malignant cells from their normal counterparts has grown tremendously. This volume summarizes the current research on the role that signal transduction pathways play in the pathogenesis of cancer and how this knowledge may be used to develop the next generation of more effective and less toxic anticancer agents. Series Editor comments: The biologic behavior of both

normal and cancer cells is determined by critical signal transduction pathways. This text provides a comprehensive review of the field. Leading investigators discuss key molecules that may prove to be important diagnostic and/or therapeutic targets.

signal transduction and targeted therapy journal impact factor: *Handbook of Oncobiology: From Basic to Clinical Sciences* R. C. Sobti,

signal transduction and targeted therapy journal impact factor: Targeting Signaling Pathways in Solid Tumors Part C , 2024-10-11 Targeting Signaling Pathways in Solid Tumors, Part C, Volume 389 in the International Review of Cell and Molecular Biology series, highlights new advances in the field, with this new volume presenting interesting chapters on topics such as Drugging the Undruggable: Advances in Targeting KRAS Signaling in Solid Tumors, Emerging Trends in Gastrointestinal Cancers: Targeting Developmental Pathways in their Carcinogenesis and Tumor Progression, Importance of targeting various cell signaling pathways in solid cancers, Targeting signaling pathways in cancer stem cells: a potential approach for developing novel anticancer therapeutics, Factors affecting heterogeneity in breast cancer microenvironment: A narrative review, and much more.Additional sections cover Exploring TLR Signaling Pathways as Promising Targets in Cervical Cancer: The Road Less Travelled - Provides the latest information on cancer research - Offers outstanding and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

signal transduction and targeted therapy journal impact factor: Targeted Therapies in Breast Cancer Gw Sledge, George W. Sledge (Jr.), 2012-06 This new volume updates the reader on selected areas of targeted therapy in breast cancer, with special emphasis on chemoprevention strategies, drug resistance, biomarkers, combination chemotherapy, angiogenesis inhibition and pharmacogenomics in the context of clinical efficacy. This selected review of targeted therapies will guide the reader on effective treatment as part of an integrated programme of patient management.

signal transduction and targeted therapy journal impact factor: Outsmarting Obesity Stewart Lonky, 2024-09-10 Harness cutting-edge science and common sense to outsmart obesity. One of the most significant global health challenges we face today is obesity. Over 100 million people in the US alone are seeking a game-changing solution to this problem. How can we break free from obesity’s clutches and shed unwanted weight for good? The answer—multifaceted, interconnected, and rooted in scientific fact, clinical experience, and common sense—lies within the pages of Outsmarting Obesity. In Outsmarting Obesity, pioneering physician Dr. Stewart Lonky gives us a fresh look at the obesity challenge with an easy-to-read explanation of the science behind his groundbreaking approach. He explains how epigenetics, our modern environment, and our toxic behaviors have created the perfect obesity storm, imperiling our physical, financial, and psychological well-being. Dr. Lonky has devoted years to studying obesity’s mysteries, and together with his colleague, peak performance expert and celebrity nutritionist Chris Talley, offers concrete suggestions on how to stop, reverse, and even prevent the obesity scourge. Get ready to break free from obesity’s clutches and embark on a journey toward lasting weight loss and a healthier, more vibrant life.

signal transduction and targeted therapy journal impact factor: *Inflammation and Cancer* Bharat B. Aggarwal, Bokyung Sung, Subash Chandra Gupta, 2014-05-12 This volume examines in detail the role of chronic inflammatory processes in the development of several types of cancer. Leading experts describe the latest results of molecular and cellular research on infection, cancer-related inflammation and tumorigenesis. Further, the clinical significance of these findings in preventing cancer progression and approaches to treating the diseases are discussed. Individual chapters cover cancer of the lung, colon, breast, brain, head and neck, pancreas, prostate, bladder, kidney, liver, cervix and skin as well as gastric cancer, sarcoma, lymphoma, leukemia and multiple myeloma.

signal transduction and targeted therapy journal impact factor: *Adverse Effects of Cancer Chemotherapy: Anything New to Improve Tolerance and Reduce Sequelae?* Kulmira Nurgali, R. Thomas Jagoe, Raquel Abalo, 2018-06-12 Advances in anti-cancer chemotherapy over recent years

have led to improved efficacy in curing or controlling many cancers. Some chemotherapy-related side-effects are well recognized and include: nausea, vomiting, bone marrow suppression, peripheral neuropathy, cardiac and skeletal muscle dysfunction and renal impairment. However, it is becoming clearer that some chemotherapy-related adverse effects may persist even in long term cancer survivors. Problems such as cognitive, cardiovascular and gastrointestinal dysfunction, and neuropathy may lead to substantial long term morbidity. Despite improvements in treatments to counteract acute chemotherapy-induced adverse effects, they are often incompletely effective. Furthermore, counter-measures for some acute side-effects and many potential longer term sequelae of anti-cancer chemotherapy have not been developed. Thus, new insights into prevalence and mechanisms of cancer chemotherapy-related side effects are needed and new approaches to improving tolerance and reduce sequelae of cancer chemotherapy are urgently needed. The present Research Topic focuses on adverse effects and sequelae of chemotherapy and strategies to counteract them.

signal transduction and targeted therapy journal impact factor: Preoperative (Neoadjuvant) Chemotherapy Joseph Ragaz, Pierre R. Band, James H. Goldie, 2012-12-06 Despite recent advances in adjuvant therapies of cancer, the regi mens of postoperative adjuvant chemotherapy treatment which are presently available fail to cure the majority of cancer patients. Pre operative (neoadjuvant) chemotherapy represents a new approach in drug scheduling, based on sound theoretical, pharmacokinetic, and experimental principles. The preoperative timing of chemotherapy before definitive sur gery is not a minor change in the therapy of cancer. To be successful, large numbers of practitioners and their patients must participate. Substantial alterations of many aspects of the present management of cancer will have to follow. Therefore, before such therapy can be fully and routinely implemented, results of the novel treatment and its rationale have to be carefully evaluated. In preoperative treatment, other features will likely gain impor tance. For the first time, clinicians have a chance to follow the in vivo response of the tumor exposed to preoperative chemotherapy. The subsequent histological assessment of the tumor sample may likely become an important prognostic guide, permitting more re fined individual approaches to the planning of postoperative adju vant treatment. The value of such a treatment strategy can already be appreciated in the clinical setting, as seen from the therapy of osteosarcoma. Furthermore, preoperative chemotherapy might render previously inoperable tumors operable and hence resectable with a curative intention. The preoperative reduction of tumor bulk may also effectively decrease the need for more radical operations, permitting a more uniform adoption of conservative surgery.

signal transduction and targeted therapy journal impact factor: Biotechnologies for Gene Therapy Yang H. Yun, Kristine E. Yoder, 2022-06-02 The purpose of this book is to highlight some of latest developments and applications of CRISPR, RNA, and DNA to treat diseases ranging from cancers to cardiovascular and degenerative disorders. It also features innovations of the delivery methods for nucleic acids ranging from nanodevices made from DNA and pseudo amino acids to viral vectors. This is an ideal book for academics, clinicians, and students interested in gene therapy.

signal transduction and targeted therapy journal impact factor: How Tobacco Smoke Causes Disease United States. Public Health Service. Office of the Surgeon General, 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

signal transduction and targeted therapy journal impact factor: Colorectal Cancer in the

Elderly Kok-Yang Tan, 2012-09-03 As the population ages, clinicians are facing an increasing number of elderly patients with colorectal cancer. These patients pose unique challenges as they have more comorbidities and lower functional reserves. In addition, the treatment goals may differ from those in younger patients. This book discusses in depth the different aspects of management of colorectal cancer in the elderly. After the provision of pertinent background information on the normal physiology of aging, screening and diagnosis are discussed. Subsequent chapters focus on a range of issues associated with the surgical and perioperative care of these patients and with adjuvant treatment and palliative care. Each chapter provides helpful take-home messages in bullet point form, and numerous informative figures and tables are also included. The authors are surgeons, physicians, anesthetists, geriatricians, oncologists, and allied health professionals with extensive experience in the field.

signal transduction and targeted therapy journal impact factor: Biomedical Research, Medicine, and Disease RC Sobti, Aastha Sobti, 2023-04-04 Biomedical research is the first step towards the creation of new medications and treatments that help to manage different types of health conditions and diseases. The prevention and cure of diseases would be practically impossible without such type of research. Although the drug discovery and development processes are far too costly, time-consuming, prone to failure, and have low success rate, today the term translational research or medicine seems to have become trendy, yet it is insufficient. The present book is a sincere attempt by dedicated researchers to convey the importance of translational biomedical research, medicine, and disease, primarily, basic and clinical difficulties in the translation of diagnostic measures, pharmaceutical advances, biomarkers, diagnostics, and therapeutics. This book is meant for researchers, scientists, healthcare professionals, industry, innovators, and students of biomedical sciences, as well as for those involved in the basic sciences, biochemistry, biotechnology, biophysics, and life sciences in general. The volume comprehensively covers: Emerging technologies for health care Various aspects of biomedical research toward understanding of pathophysiology of the diseases Advances in improvement in diagnostic procedures and therapeutic tools The fundamental role of biomedical research in the development of new medicinal products

signal transduction and targeted therapy journal impact factor: Dermatologic Principles and Practice in Oncology Mario E. Lacouture, 2013-11-26 The first book focusing specifically on frequent and frequently disabling side effects involving the skin, hair and nails in cancer patients According to the World Health Organization, there are approximately thirty million people living with a diagnosis of cancer – the majority of whom will receive surgery, systemic therapy, and/or radiation, and who will suffer from dermatologic adverse events. Dermatologists and oncologists are only beginning to grapple with these events, which pose serious quality-of-life issues with so many patients, and will become more prevalent as survival rates improve, thanks in part to new cancer treatments and drug regimens. Concentrating on a topic that has only been briefly touched upon by other texts, this book offers a focused perspective on the clinical presentation, underlying pathophysiologic mechanisms, and management of skin, hair, and nail conditions for oncologists, dermatologists, and allied practitioners. Dermatologic Principles and Practice in Oncology: Conditions of the Skin, Hair, and Nails in Cancer Patients: • Covers in detail the dermatologic adverse events of oncologic therapies, clinical presentations, and treatment recommendations • Enables dermatologists and other practitioners to significantly improve the care of patients with cancer • Addresses the dermatologic adverse events of cancer therapies used globally, of which a large number are found in developing countries • Emphasizes prophylactic measures – based on treatments used and type of cancer – to prevent the appearance of adverse events • Provides built-in discussions on patient education for practical counseling during therapies • Offers rapid-reference sections on topical dermatology drugs The first book to present dermatologic conditions in cancer patients and survivors in a uniform and in-depth manner, Dermatologic Principles and Practice in Oncology is ideal for oncologists, oncology nurses, and dermatologists who wish to take better care of those with adverse skin, hair, and nail conditions.

signal transduction and targeted therapy journal impact factor: Rare

Neurodegenerative Disorders - New Insights Liam Chen, 2024-09-25 Neurodegenerative diseases share the common property of neuronal loss in the higher-order association and limbic cortices or the extrapyramidal and pyramidal motor systems. In addition, oligodendroglia, astrocytes, and microglia have been implicated in fundamental abnormalities of virtually every neurodegenerative disorder. The particular system affected, more importantly the distribution of the pathology, determines the clinical presentation. While the most common dementia and movement disorders, such as Alzheimer's disease, Lewy body disease, and frontotemporal lobar degeneration with TDP-43 pathology, including amyotrophic lateral sclerosis, have been extensively studied, many less common, even rare neurodegenerative disorders have gained more attention in recent years. This shift in focus is perhaps driven, in part, by the severely underestimated financial costs associated with these diseases, as well as the immense emotional burden they impose on patients and their caregivers. This book presents the most recent developments in rare neurodegenerative disorders. Insights gained from the investigation of pathophysiological mechanisms of these rare disorders may lead to the development of therapeutic strategies for more prevalent neurodegenerative disorders. In addition to highlighting advancements in research, the book discusses the significant challenges faced by researchers and healthcare professionals in diagnosing and treating rare diseases. It emphasizes the critical need for continued funding and support for research, which is essential to improving patient outcomes and advancing our understanding of these complex conditions.

signal transduction and targeted therapy journal impact factor: *Contraceptive Research and Development* Institute of Medicine, Committee on Contraceptive Research and Development, 1996-11-04 The contraceptive revolution of the 1960s and 1970s introduced totally new contraceptive options and launched an era of research and product development. Yet by the late 1980s, conditions had changed and improvements in contraceptive products, while very important in relation to improved oral contraceptives, IUDs, implants, and injectables, had become primarily incremental. Is it time for a second contraceptive revolution and how might it happen? Contraceptive Research and Development explores the frontiers of science where the contraceptives of the future are likely to be found and lays out criteria for deciding where to make the next R&D investments. The book comprehensively examines today's contraceptive needs, identifies niches in those needs that seem most readily translatable into market terms, and scrutinizes issues that shape the market: method side effects and contraceptive failure, the challenge of HIV/AIDS and other sexually transmitted diseases, and the implications of the women's agenda. Contraceptive Research and Development analyzes the response of the pharmaceutical industry to current dynamics in regulation, liability, public opinion, and the economics of the health sector and offers an integrated set of recommendations for public- and private-sector action to meet a whole new generation of demand.

signal transduction and targeted therapy journal impact factor: Diabetic Foot Ulcers - Pathogenesis, Innovative Treatments and AI Applications Muhammad E.H. Chowdhury, Susu M. Zughaier, Anwarul Hasan, Rashad Alfkey, 2024-05-22 Diabetic Foot Ulcers - Pathogenesis, Innovative Treatments, and AI Applications is a groundbreaking compilation that offers a comprehensive examination of diabetic foot ulcers (DFUs) from multiple perspectives. With contributions from leading experts in the field, this book explores the epidemiology, risk factors, and underlying pathophysiology of DFUs, providing valuable insights into the complexities of this debilitating complication of diabetes. Innovative treatments for DFUs are explored in depth, including the latest advancements in wound care, bioengineered skin substitutes, growth factors, and hyperbaric oxygen therapy. Contributors also discuss the importance of multidisciplinary approaches and patient-centered care in effectively managing DFUs and reducing complications. A highlight of this volume is the exploration of artificial intelligence (AI) applications in DFU management. From machine learning algorithms to deep learning models and computer vision techniques, experts showcase the potential of AI in early detection, risk stratification, and personalized treatment of DFUs, paving the way for more efficient and effective clinical

decision-making. With its interdisciplinary approach and cutting-edge insights, Diabetic Foot Ulcers - Pathogenesis, Innovative Treatments, and AI Applications is a valuable resource for researchers, clinicians, students, and healthcare professionals interested in DFU research and management. By sharing knowledge, fostering innovation, and embracing new technologies, this book aims to make significant strides towards preventing and effectively managing DFUs, ultimately improving the health and well-being of individuals affected by this challenging complication of diabetes. Diabetic Foot Ulcers - Pathogenesis, Innovative Treatments, and AI Applications is available now, providing essential reading for anyone seeking to deepen their understanding of DFUs and explore the latest advancements in treatment and care.

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today's available information on this growing topic into one convenient resource, making it an ideal, easy-to-digest reference for practicing and trainee oncologists. - Covers the diagnosis, treatments and targeted therapies, and management of breast cancers that are HER2-positive. - Contains sections on background and testing, advanced disease, therapeutics, and toxicity considerations. - Includes a timely section on innovative future therapies.

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and cancer (such as clinical trials, drug development and profits, and global disparities), as well as animals and cancer.

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and well illustrated, the Handbook will serve as an in-depth reference for this complex and evolving field. Handbook of Cell Signaling, 2/e will appeal to a broad, cross-disciplinary audience interested in the structure, biochemistry, molecular biology and pathology of cellular effectors. - Contains over 350 chapters of comprehensive coverage on cell signaling - Includes discussion on topics from ligand/receptor interactions to organ/organism responses - Provides user-friendly, well-illustrated, reputable content by experts in the field

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signal transduction and targeted therapy journal impact factor: *Metabolism in Cancer* Thorsten Cramer, Clemens A. Schmitt, 2016-08-24 This textbook presents concise chapters written by internationally respected experts on various important aspects of cancer-associated metabolism, offering a comprehensive overview of the central features of this exciting research field. The discovery that tumor cells display characteristic alterations of metabolic pathways has significantly changed our understanding of cancer: while the first description of tumor-specific changes in cellular energetics was published more than 90 years ago, the causal significance of this observation for the pathogenesis of cancer was only discovered in the post-genome era. The first 10 years of the twenty-first century were characterized by rapid advances in our grasp of the functional role of cancer-specific metabolism as well as the underlying molecular pathways. Various unanticipated interrelations between metabolic alterations and cancer-driving pathways were identified and currently await translation into diagnostic and therapeutic applications. Yet the speed, quantity, and complexity of these new discoveries make it difficult for researchers to keep up to date with the latest developments, an issue this book helps to remedy.

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surgery, chemotherapy and radiotherapy is often necessary to achieve the optimal outcome. Recently, international experts met in Heidelberg, Germany to discuss the latest developments in the management of rectal cancer, including the anatomic and pathologic basis, staging tools, surgical concepts including fast-track surgery and laparoscopic resection, functional outcome after surgery and the role of radio- and chemotherapy. This monograph summarizes this meeting and gives an extensive overview of the current concepts in management of rectal cancer.

signal transduction and targeted therapy journal impact factor: Retinal Pharmacotherapy E-Book Quan Dong Nguyen, Eduardo Buchele Rodrigues, Michel Eid Farah, William F. Mieler, 2010-02-26 Retinal Pharmacotherapy is the first comprehensive book devoted to pharmacologic agents and their rationale and mechanisms of action in selected retinal and uveitic diseases. Drs. Quan Dong Nguyen, Eduardo Buchele Rodrigues, Michel Eid Farah, and William F. Mieler lead an international team of expert contributors to present up-to-date knowledge of new drugs on the market, the science behind the drugs, evidence of how the drugs work, and the reasons why they are effective or not. This user-friendly, all-in-one reference provides you with easy access to practical information on the effective and appropriate use of pharmacologic agents in the management of retinal diseases. Covers all new and existing retinal drugs to keep you current in this expanding area of the treatment of retinal diseases. Discusses the background behind retinal drugs and the various pathways of how they work so you can make thoroughly informed clinical decisions. Presents 400 color photographs and line drawings that illustrate disease appearance before and after treatment and clarify difficult key concepts. Features contributors from Europe, North America, South America, the Middle East, Asia, and Australia for an international approach. Identifies and emphasizes key points clearly in each chapter to improve comprehension and make finding information easier.

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