

# Journal Of Cell Science Impact Factor 2022

## **Journal of Cell Science Impact Factor 2022: A Deep Dive into Publication Metrics and Significance**

### Introduction:

Are you a cell biologist striving to publish your groundbreaking research? Understanding the impact factor of journals is crucial for career advancement and maximizing your research's visibility. This comprehensive guide delves into the Journal of Cell Science impact factor 2022, providing you with not just the number, but a thorough analysis of its meaning, trends, and implications for aspiring authors. We'll explore the significance of impact factors, dissect the Journal of Cell Science's standing within the field, and offer valuable insights to navigate the publication landscape. Prepare to gain a strategic advantage in your publishing journey!

### What is an Impact Factor and Why Does It Matter?

Before diving into the specifics of the Journal of Cell Science, let's establish a clear understanding of impact factors. The Journal Citation Reports (JCR), published by Clarivate Analytics, calculates the impact factor annually. It represents the average number of citations received per paper published in a journal during a specific period (typically the two preceding years). A higher impact factor generally indicates a journal's influence within its field, suggesting that its published articles are frequently cited by other researchers.

While not a perfect metric, the impact factor remains a significant benchmark for assessing journal prestige, influencing researchers' publication choices, funding applications, and career progression. It serves as a proxy for the quality and influence of the research published within the journal. However, it's crucial to consider the limitations of impact factors, which we will address later in this article.

### Journal of Cell Science Impact Factor 2022: The Numbers and Context

The exact Journal of Cell Science impact factor for 2022 varies slightly depending on the reporting source. However, it consistently falls within a range indicative of a highly reputable journal in the field of cell biology. Precise figures can be found on the Journal Citation Reports website or the journal's official website. Regardless of the precise number, it's important to consider the broader context. The impact factor should be evaluated alongside other factors such as:

**Journal scope and focus:** The Journal of Cell Science covers a wide range of cell biology topics, encompassing diverse methodologies and research areas. This broad scope can influence its impact factor compared to more niche journals.

**Citation practices within the field:** Citation habits vary across disciplines. Some fields inherently have higher citation rates than others.

**Article type:** Review articles tend to receive more citations than original research articles, potentially skewing the overall impact factor.

## Understanding the Trends: Journal of Cell Science Impact Factor Over Time

Analyzing the Journal of Cell Science's impact factor over several years provides valuable insights into its evolving influence and standing within the cell biology community. A steady or increasing trend signifies sustained quality and relevance. A declining trend might warrant further investigation into potential contributing factors. Examining this historical data offers a more nuanced perspective than focusing solely on the single year's impact factor. This longitudinal view is essential for a comprehensive assessment.

## Beyond the Numbers: Assessing Journal Quality

While the impact factor remains a prominent metric, relying solely on it can be misleading. Several factors should be considered when evaluating the suitability of a journal for your research:

**Editorial rigor and peer-review process:** A robust peer-review system ensures the quality and validity of published articles. Investigate the journal's peer-review process and the reputation of its editorial board.

**Readership and audience:** A journal with a wide and engaged readership increases the potential impact of your published work.

**Open access options:** Consider the journal's open access policies and associated fees, balancing accessibility with potential costs.

**Publication speed:** The time taken for publication can significantly impact the dissemination of your findings.

## Strategic Considerations for Publication in the Journal of Cell Science

Choosing where to publish your research is a strategic decision. To maximize the impact of your work, consider:

**Alignment of research with journal scope:** Ensure your research aligns with the journal's specific aims and scope. A strong match increases the likelihood of acceptance.

**Manuscript preparation and submission:** Adhering to the journal's author guidelines is crucial. A well-written and meticulously prepared manuscript increases your chances of acceptance.

**Responding to reviewer comments:** Engage constructively with reviewer comments during the peer-review process to enhance the quality of your manuscript.

## Limitations of Impact Factors

It's imperative to acknowledge the limitations of impact factors. They are not a perfect measure of research quality, and their use can be subject to manipulation. Factors such as self-citation and citation inflation can artificially inflate impact factors. Moreover, impact factors can vary significantly between disciplines, making direct comparisons across fields challenging.

## Conclusion:

The Journal of Cell Science impact factor 2022, alongside its historical trends and contextual factors, provides valuable insights into its standing within the field of cell biology. However, it's crucial to

approach impact factors critically, considering their limitations and supplementing them with other assessments of journal quality. A strategic approach to journal selection, considering the factors discussed above, is key to maximizing the reach and impact of your research.

## Book Outline: "Navigating the Publication Landscape: A Guide to Journal Selection"

### I. Introduction:

- Defining impact factors and their significance
- Overview of Journal of Cell Science
- Importance of strategic journal selection

### II. Understanding Impact Factors:

- Calculation methodology
- Interpreting impact factor data
- Trends in Journal of Cell Science's impact factor
- Limitations and criticisms of impact factors

### III. Beyond Impact Factors: Evaluating Journal Quality:

- Peer-review process
- Editorial board reputation
- Readership and audience
- Open access options
- Publication speed and efficiency

### IV. Strategic Publication Planning:

- Aligning research with journal scope
- Manuscript preparation and submission
- Effective response to reviewer comments
- Publication strategies for maximizing impact

### V. Conclusion:

- Recap of key takeaways
- Future considerations for journal selection
- Resources and further reading

(Detailed explanation of each point in the outline would follow here, mirroring the content already provided in the main article. This section would elaborate on each heading with more detail and examples, expanding on the concepts already touched upon.)

### FAQs:

1. What is the exact Journal of Cell Science impact factor for 2022? The precise number varies slightly depending on the source but can be found on the JCR website or the journal's website.
2. Is the Journal of Cell Science a good journal to publish in? It's a highly reputable journal, but the suitability depends on your specific research and publication goals.
3. How is the impact factor calculated? It's calculated by dividing the number of citations received by articles published in the journal in the two preceding years by the total number of citable articles published in those years.

4. What are the limitations of using impact factor as the sole metric for journal evaluation? Impact factors can be influenced by self-citation, citation inflation, and variations in citation practices across fields. They don't fully represent the quality or impact of individual papers.
5. What other factors should I consider when choosing a journal? Peer review process, editorial board, readership, open access options, and publication speed are all vital factors.
6. How can I increase my chances of publication in the Journal of Cell Science? Ensure your research aligns with the journal's scope, prepare a high-quality manuscript, and engage constructively with reviewer feedback.
7. Does a higher impact factor guarantee greater research quality? No, it's a correlation, not a causation. A high impact factor suggests greater visibility and citation, not necessarily superior research.
8. What is the Journal Citation Reports (JCR)? The JCR is a database published by Clarivate Analytics that provides impact factors and other bibliometric data for academic journals.
9. Where can I find the Journal of Cell Science's impact factor data? You can find it on the Journal Citation Reports website (Web of Science) or the Journal of Cell Science's official website.

#### Related Articles:

1. Top 10 Cell Biology Journals in 2023: A comparative analysis of leading journals in the field.
2. Impact Factor vs. Altmetrics: A Comparative Study: Exploring alternative metrics for assessing research impact.
3. How to Write a Compelling Journal Article: A guide to manuscript preparation and submission.
4. Navigating the Peer-Review Process: Tips and strategies for successful publication.
5. Open Access Publishing: Advantages and Disadvantages: Exploring the benefits and drawbacks of open access journals.
6. The Role of Impact Factors in Academic Careers: How impact factors influence career progression and funding opportunities.
7. Understanding Journal Metrics: Beyond Impact Factors: A deep dive into alternative metrics for evaluating journals.
8. Journal of Cell Science Author Guidelines: A detailed guide to the journal's submission requirements.
9. The Ethics of Journal Selection: Considerations of transparency and responsible publication practices.

**journal of cell science impact factor 2022: Membrane Trafficking** Ales Vancura, 2008-08-28 As membrane trafficking research has expanded over the past thirty years, a remarkable convergence of information has been gained by using genetic approaches in yeast cells with biochemical approaches in mammalian cells. This book reflects these advances by devoting one section of the book to yeast cells and the other to mammalian cells, with each section providing both classic and cutting-edge techniques to study macromolecular transport across the membranes.

**journal of cell science impact factor 2022: Intestinal Stem Cell Niche** , 2018-04-24 Advances in Stem Cells and Their Niches addresses stem cells during development, homeostasis, and disease/injury of the respective organs, presenting new developments in the field, including new data on disease and clinical applications. Video content illustrates such areas as protocols, transplantation techniques, and work with mice. Explores not only reviews of research, but also shares methods, protocols, and transplantation techniques Contains video content to illustrate such areas as protocols, transplantation techniques, and work with mice Each volume concentrates on one organ, making this a unique publication

**journal of cell science impact factor 2022: Hot Topics in Cell Biology** José Becerra, Leonor

Santos-Ruiz, 2012 Summary This book is a definitive overview of the current 'state of the art' in cell biology. It is based on papers presented by leading researchers at the Spanish Society for Cell Biology's XIV Congress - a Congress that strives to achieve scientific excellence. Each participant was asked to prepare a 'mini review' of current and likely future development in their area of research. This book is based on those reviews. As such, it is therefore an analysis of current and future trends. Key Features Contains contributions from some of the world's leading researchers. The book is multidisciplinary, covering almost all topics in cell biology: from basic to applied cell biology, and a wide variety of models: from in vitro to vivo models, ranging from fish to rodents and humans. Each 'mini review' is an easy-read piece, describing the state of the art on a topic with clear language and in a summary format. The mini review format makes the book attractive not only to readers involved in cell biology research and teaching, but also professionals from other disciplines and students. The book takes a truly multidisciplinary approach; it covers a wide array of topics, and the book reflects how cell biology interacts with other disciplines The Editors Jose Becerra is Professor of Cell Biology at the University of Málaga (Spain) since 1989. He has been Dean Secretary, Vice-Dean and Dean of the Faculty of Sciences of Málaga, and is now the Head of the Department of Cell Biology, Genetics and Physiology. From 2001 to 2003 he was the Director of the Andalusian Laboratory of Biology (LAB, Seville), which was converted in the Andalusian Centre for Developmental Biology (CABD) under his term. He is a member of the Technical Committee of the National Stem Cell Bank since 2007, patron of the Board of Trustees of IMABIS Foundation (Mediterranean Institute for the Advance of Biotechnology and Health Research), coordinator of the Biomaterials and Tissue Engineering Area of the the Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), and member of the Direction Committee of the CIBER-BBN. Leonor Santos-Ruiz is Senior Researcher of the CIBER-BBN network at the Andalusian Center for Nanomedicine and Biotechnology (BIONAND). She started her career studying the cellular and molecular basis of lower vertebrates' amazing ability for tissue regeneration, with a special attention to bone and spinal cord repair. Readership Cell biology academics and researchers Contents Introduction Dynamics of cell compartments The intracellular trafficking Cell signaling Autophagy, apoptosis and cell homeostasis Cell biology of aging Plant cell biology Methods in cell biology Applied cell biology Cell biology of cancer Cell therapies and tissue engineering Neurodegeneration and cell biology Nanotechnology and cell biology: challenges and opportunities

**journal of cell science impact factor 2022: Cellular and Molecular Immunology** Abul K. Abbas, Andrew H. Lichtman, 2005 The 5th Edition of this comprehensive title continues the tradition of delivering an accessible, engaging, and current introduction to this essential subject. The authors describe the principles of basic and applied immunology in a concise, straightforward manner, while incorporating the most up-to-date information. Over 400 illustrations help readers quickly and easily grasp key concepts. The entire text has been revised and includes new information about the organization of lymphoid organs and the mechanisms of innate immunity. (Midwest).

**journal of cell science impact factor 2022: Stem Cells** Mariusz Z. Ratajczak, 2020-01-02 Since different types of stem cells for therapeutic applications have recently been proposed, this timely volume explores various sources of stem cells for tissue and organ regeneration and discusses their advantages and limitations. Also discussed are pros and cons for using embryonic stem cells, induced pluripotent stem cells, and adult stem cells isolated from postnatal tissues. Different types of adult stem cells for therapeutic applications are also reviewed, including hematopoietic stem cells, epidermal stem cells, endothelial progenitors, neural stem cells, mesenchymal stem cells, and very small embryonic-like stem cells. This book also addresses paracrine effects of stem cells in regenerative medicine that are mediated by extracellular microvesicles and soluble secretome. Finally, potential applications of stem cells in cardiology, gastroenterology, neurology, immunotherapy, and aging are presented. This is an ideal book for students and researchers working in the stem cell research field.

**journal of cell science impact factor 2022: Journals** Independently Published, 2020-07-11

6x9/BlackLined/White/120pages A Journal for you to write down your heart's contents, to take notes, practice your creative writing, write down your to-do-lists or simply enjoy journaling.

**journal of cell science impact factor 2022: *Progress in Molecular Biology and Translational Science*** David B. Teplow, 2018-10-16 *Progress in Molecular Biology and Translational Science*, Volume 159, provides the most topical, informative and exciting monographs available on a wide variety of research topics related to prions, viruses, bacteria and eukaryotes. The series includes in-depth knowledge on molecular biological aspects of organismal physiology, along with insights on how this knowledge may be applied to understand and ameliorate human disease. New chapters in this release discuss timely topics, such as Targeting recently deorphanized GPR83 for the treatment of infection, stress, and drug addiction, Arrestin Structure-Function, Arrestins in the Cardiovascular System, Analysis of biased agonism, and more. - Includes comprehensive coverage of molecular biology - Presents ample use of tables, diagrams, schemata, and color figures to enhance the reader's ability to rapidly grasp the information provided - Contains contributions from renowned experts in the field

**journal of cell science impact factor 2022: *Plant Systems Biology*** Dmitry A. Belostotsky, 2009-08-25 In this authoritative guide, expert investigators provide cutting-edge chapters dealing with modern plant systems biology approaches. This work provides the kind of detailed description and implementation advice that is crucial for getting optimal results.

**journal of cell science impact factor 2022: *Biological & Agricultural Index***, 1981

**journal of cell science impact factor 2022: *Molecular Biology of the Cell***, 2002

**journal of cell science impact factor 2022: *Stem Cells and the Future of Regenerative Medicine*** Institute of Medicine, Board on Neuroscience and Behavioral Health, National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on the Biological and Biomedical Applications of Stem Cell Research, 2002-01-25 Recent scientific breakthroughs, celebrity patient advocates, and conflicting religious beliefs have come together to bring the state of stem cell research—specifically embryonic stem cell research—into the political crosshairs. President Bush's watershed policy statement allows federal funding for embryonic stem cell research but only on a limited number of stem cell lines. Millions of Americans could be affected by the continuing political debate among policymakers and the public. *Stem Cells and the Future of Regenerative Medicine* provides a deeper exploration of the biological, ethical, and funding questions prompted by the therapeutic potential of undifferentiated human cells. In terms accessible to lay readers, the book summarizes what we know about adult and embryonic stem cells and discusses how to go about the transition from mouse studies to research that has therapeutic implications for people. Perhaps most important, *Stem Cells and the Future of Regenerative Medicine* also provides an overview of the moral and ethical problems that arise from the use of embryonic stem cells. This timely book compares the impact of public and private research funding and discusses approaches to appropriate research oversight. Based on the insights of leading scientists, ethicists, and other authorities, the book offers authoritative recommendations regarding the use of existing stem cell lines versus new lines in research, the important role of the federal government in this field of research, and other fundamental issues.

**journal of cell science impact factor 2022: *CRISPR-Cas Systems*** Rodolphe Barrangou, John van der Oost, 2012-12-13 CRISPR/Cas is a recently described defense system that protects bacteria and archaea against invasion by mobile genetic elements such as viruses and plasmids. A wide spectrum of distinct CRISPR/Cas systems has been identified in at least half of the available prokaryotic genomes. On-going structural and functional analyses have resulted in a far greater insight into the functions and possible applications of these systems, although many secrets remain to be discovered. In this book, experts summarize the state of the art in this exciting field.

**journal of cell science impact factor 2022: *The Retina in Health and Disease*** Maurice Ptito, Joseph Bouskila, 2021-12-27 Vision is the most important sense in higher mammals. The retina is the first step in visual processing and the window to the brain. It is not surprising that problems arising in the retina lead to moderate to severe visual impairments. We offer here a collection of reviews as

well as original papers dealing with various aspects of retinal function as well as dysfunction. New approaches in retinal research are described, such as the expression and localization of the endocannabinoid system in the normal retina and the role of cannabinoid receptors that could offer new avenues of research in the development of potential treatments for retinal diseases. Moreover, new insights are offered in advancing knowledge towards the prevention and cure of visual pathologies, mainly AMD, RP, and diabetic retinopathy.

**journal of cell science impact factor 2022: Plant Cell, Tissue and Organ Culture** Oluf Gamborg, Gregory C. Phillips, 2013-06-29 This manual provides all relevant protocols for basic and applied plant cell and molecular technologies, such as histology, electron microscopy, cytology, virus diagnosis, gene transfer and PCR. Also included are chapters on laboratory facilities, operation and management as well as a glossary and all the information needed to set up and carry out any of the procedures without having to use other resource books. It is especially designed for professionals and advanced students who wish to acquire practical skills and first-hand experience in plant biotechnology.

**journal of cell science impact factor 2022: Environmental Epigenetics** L. Joseph Su, Tung-chin Chiang, 2015-05-18 This book examines the toxicological and health implications of environmental epigenetics and provides knowledge through an interdisciplinary approach. Included in this volume are chapters outlining various environmental risk factors such as phthalates and dietary components, life states such as pregnancy and ageing, hormonal and metabolic considerations and specific disease risks such as cancer cardiovascular diseases and other non-communicable diseases. Environmental Epigenetics imparts integrative knowledge of the science of epigenetics and the issues raised in environmental epidemiology. This book is intended to serve both as a reference compendium on environmental epigenetics for scientists in academia, industry and laboratories and as a textbook for graduate level environmental health courses. Environmental Epigenetics imparts integrative knowledge of the science of epigenetics and the issues raised in environmental epidemiology. This book is intended to serve both as a reference compendium on environmental epigenetics for scientists in academia, industry and laboratories and as a textbook for graduate level environmental health courses.

**journal of cell science impact factor 2022: A Guide to Human Gene Therapy** Roland W. Herzog, Sergei Zolotukhin, 2010 1. Non-viral gene therapy / Sean M. Sullivan -- 2. Adenoviral vectors / Stuart A. Nicklin and Andrew H. Baker -- 3. Retroviral vectors and integration analysis / Cynthia C. Bartholomae [und weitere] -- 4. Lentiviral vectors / Janka Matrai, Marinee K.L. Chuah and Thierry VandenDriessche -- 5. Herpes simplex virus vectors / William F. Goins [und weitere] -- 6. Adeno-Associated Viral (AAV) vectors / Nicholas Muzyczka -- 7. Regulatory RNA in gene therapy / Alfred. S. Lewin -- 8. DNA integrating vectors (Transposon, Integrase) / Lauren E. Woodard and Michele P. Calos -- 9. Homologous recombination and targeted gene modification for gene therapy / Matthew Porteus -- 10. Gene switches for pre-clinical studies in gene therapy / Caroline Le Guiner [und weitere] -- 11. Gene therapy for central nervous system disorders / Deborah Young and Patricia A. Lawlor -- 12. Gene therapy of hemoglobinopathies / Angela E. Rivers and Arun Srivastava -- 13. Gene therapy for primary immunodeficiencies / Aisha Sauer, Barbara Cassani and Alessandro Aiuti -- 14. Gene therapy for hemophilia / David Markusic, Babak Moghimi and Roland Herzog -- 15. Gene therapy for obesity and diabetes / Sergei Zolotukhin and Clive H. Wasserfall -- 16. Gene therapy for Duchenne muscular dystrophy / Takashi Okada and Shin'ichi Takeda -- 17. Cancer gene therapy / Kirsten A.K. Weigel-Van Aken -- 18. Gene therapy for autoimmune disorders / Daniel F. Gaddy, Melanie A. Ruffner and Paul D. Robbins -- 19. Gene therapy for inherited metabolic storage diseases / Cathryn Mah -- 20. Retinal diseases / Shannon E. Boye, Sanford L. Boye and William W. Hauswirth -- 21. A brief guide to gene therapy treatments for pulmonary diseases / Ashley T. Martino, Christian Mueller and Terence R. Flotte -- 22. Cardiovascular disease / Darin J. Falk, Cathryn S. Mah and Barry J. Byrne

**journal of cell science impact factor 2022: Viscoelastic Properties of Polymers** John D. Ferry, 1980-09-16 Viscoelastic behavior reflects the combined viscous and elastic responses, under

mechanical stress, of materials which are intermediate between liquids and solids in character. Polymers the basic materials of the rubber and plastic industries and important to the textile, petroleum, automobile, paper, and pharmaceutical industries as well exhibit viscoelasticity to a pronounced degree. Their viscoelastic properties determine the mechanical performance of the final products of these industries, and also the success of processing methods at intermediate stages of production. Viscoelastic Properties of Polymers examines, in detail, the effects of the many variables on which the basic viscoelastic properties depend. These include temperature, pressure, and time; polymer chemical composition, molecular weight and weight distribution, branching and crystallinity; dilution with solvents or plasticizers; and mixture with other materials to form composite systems. With guidance by molecular theory, the dependence of viscoelastic properties on these variables can be simplified by introducing certain ancillary concepts such as the fractional free volume, the monomeric friction coefficient, and the spacing between entanglement loci, to provide a qualitative understanding and in many cases a quantitative prediction of how to achieve desired results. The phenomenological theory of viscoelasticity which permits interrelation of the results of different types of experiments is presented first, with many useful approximation procedures for calculations given. A wide variety of experimental methods is then described, with critical evaluation of their applicability to polymeric materials of different consistencies and in different regions of the time scale (or, for oscillating deformations, the frequency scale). A review of the present state of molecular theory follows, so that viscoelasticity can be related to the motions of flexible polymer molecules and their entanglements and network junctions. The dependence of viscoelastic properties on temperature and pressure, and its descriptions using reduced variables, are discussed in detail. Several chapters are then devoted to the dependence of viscoelastic properties on chemical composition, molecular weight, presence of diluents, and other features, for several characteristic classes of polymer materials. Finally, a few examples are given to illustrate the many potential applications of these principles to practical problems in the processing and use of rubbers, plastics, and fibers, and in the control of vibration and noise. The third edition has been brought up to date to reflect the important developments, in a decade of exceptionally active research, which have led to a wider use of polymers, and a wider recognition of the importance and range of application of viscoelastic properties. Additional data have been incorporated, and the book's chapters on dilute solutions, theory of undiluted polymers, plateau and terminal zones, cross-linked polymers, and concentrated solutions have been extensively rewritten to take into account new theories and new experimental results. Technical managers and research workers in the wide range of industries in which polymers play an important role will find that the book provides basic information for practical applications, and graduate students in chemistry and engineering will find, in its illustrations with real data and real numbers, an accessible introduction to the principles of viscoelasticity.

**journal of cell science impact factor 2022:** *Current Protocols in Molecular Biology* ,

**journal of cell science impact factor 2022: Mesenchymal Stem Cell Derived Exosomes**  
 Yaoliang Tang, Buddhadeb Dawn, 2015-09-02 Mesenchymal stem cell-derived exosomes are at the forefront of research in two of the most high profile and funded scientific areas – cardiovascular research and stem cells. Mesenchymal Stem Cell Derived Exosomes provides insight into the biofunction and molecular mechanisms, practical tools for research, and a look toward the clinical applications of this exciting phenomenon which is emerging as an effective diagnostic. Primarily focused on the cardiovascular applications where there have been the greatest advancements toward the clinic, this is the first compendium for clinical and biomedical researchers who are interested in integrating MSC-derived exosomes as a diagnostic and therapeutic tool. - Introduces the MSC-exosome mediated cell-cell communication - Covers the major functional benefits in current MSC-derived exosome studies - Discusses strategies for the use of MSC-derived exosomes in cardiovascular therapies

**journal of cell science impact factor 2022: Stem Cells** Christine L. Mummery, Anja van de Stolpe, Bernard Roelen, Hans Clevers, 2014-05-23 The second edition of Stem Cells: Scientific Facts



and Fiction provides the non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary science and medicine. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on organs on chips and adult progenitor cells. In the past decades our understanding of stem cell biology has increased tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. - Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapy - Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice - Richly illustrated to assist in understanding how research is done and the current hurdles to clinical practice

**journal of cell science impact factor 2022: The Molecular Biology of Fertilization** Heide Schatten, Gerald Schatten, 1989 The Molecular Biology of Fertilization ...

**journal of cell science impact factor 2022: The Psychology of Fake News** Rainer Greifeneder, Mariela Jaffe, Eryn Newman, Norbert Schwarz, 2020-08-13 This volume examines the phenomenon of fake news by bringing together leading experts from different fields within psychology and related areas, and explores what has become a prominent feature of public discourse since the first Brexit referendum and the 2016 US election campaign. Dealing with misinformation is important in many areas of daily life, including politics, the marketplace, health communication, journalism, education, and science. In a general climate where facts and misinformation blur, and are intentionally blurred, this book asks what determines whether people accept and share (mis)information, and what can be done to counter misinformation? All three of these aspects need to be understood in the context of online social networks, which have fundamentally changed the way information is produced, consumed, and transmitted. The contributions within this volume summarize the most up-to-date empirical findings, theories, and applications and discuss cutting-edge ideas and future directions of interventions to counter fake news. Also providing guidance on how to handle misinformation in an age of "alternative facts", this is a fascinating and vital reading for students and academics in psychology, communication, and political science and for professionals including policy makers and journalists.

**journal of cell science impact factor 2022: Differentiation of Embryonic Stem Cells** , 2003-12-18 This volume covers all aspects of embryonic stem cell differentiation, including mouse embryonic stem cells, mouse embryonic germ cells, monkey and human embryonic stem cells, and gene discovery.\* Early commitment steps and generation of chimeric mice\* Differentiation to mesoderm derivatives\* Gene discovery by manipulation of mouse embryonic stem cells

**journal of cell science impact factor 2022: Inter-Organellar Ca<sup>2+</sup> Signaling in Health and Disease - Part B** , 2021-08-12 International Review of Cell and Molecular Biology reviews and details current advances in cell and molecular biology. The IRCMB series has a worldwide readership, maintaining a high standard by publishing invited articles on important and timely topics that are authored by prominent cell and molecular biologists. The articles published in IRCMB have a high impact and an average cited half-life of 9 years. This great resource ranks high amongst scientific journals dealing with cell biology. - Publishes only invited review articles on selected topics - Authored by established and active cell and molecular biologists and drawn from international sources - Offers a wide range of perspectives on specific subjects

**journal of cell science impact factor 2022: Tissue Engineering and Regenerative Medicine** Phuc Van Pham, 2019-08-14 This new series, based on a bi-annual conference and its

topics, represents a major contribution to the emerging science of cancer research and regenerative medicine. Each volume brings together some of the most pre-eminent scientists working on cancer biology, cancer treatment, cancer diagnosis, cancer prevention and regenerative medicine to share information on currently ongoing work which will help shape future therapies. These volumes are invaluable resources not only for already active researchers or clinicians but also for those entering these fields, plus those in industry. Tissue Engineering and Regenerative Medicine is a proceedings volume which reflects papers presented at the 3rd bi-annual Innovations in Regenerative Medicine and Cancer Research conference; taken with its companion volume Stem Cells: Biology and Engineering it provides a complete overview of the papers from that meeting of international experts.

**journal of cell science impact factor 2022:** Regulating with RNA in Bacteria and Archaea Gisela Storz, Kai Papenfort, 2018-11-01 Revealing the many roles of RNA in regulating gene expression For decades after the discoveries of messenger RNA, transfer RNA, and ribosomal RNA, it was largely assumed that the role of RNA in the cell was limited to shuttling the genomic message, chaperoning amino acids, and toiling in the ribosomes. Eventually, hints that RNA molecules might have regulatory roles began to appear. With the advent of genomics and bioinformatics, it became evident that numerous other RNA forms exist and have specific functions, including small RNAs (sRNA), RNA thermometers, and riboswitches to regulate core metabolic pathways, bacterial pathogenesis, iron homeostasis, quorum sensing, and biofilm formation. All of these functions, and more, are presented in Regulating with RNA in Bacteria and Archaea, written by RNA biologists from around the globe. Divided into eight sections-RNases and Helicases, Cis-Acting RNAs, Cis Encoded Base Pairing RNAs, Trans-Encoded Base Pairing RNAs, Protein Titration and Scaffolding, General Considerations, Emerging Topics, and Resources-this book serves as an excellent resource for established RNA biologists and for the many scientists who are studying regulated cellular systems. It is no longer a fair assumption that gene expression regulation is the provenance of proteins only or that control is exerted primarily at the level of transcription. This book makes clear that regulatory RNAs are key partners along with proteins in controlling the complex interactions and pathways found within prokaryotes.

**journal of cell science impact factor 2022:** The Metric Tide James Wilsdon, 2016-01-20 'Represents the culmination of an 18-month-long project that aims to be the definitive review of this important topic. Accompanied by a scholarly literature review, some new analysis, and a wealth of evidence and insight... the report is a tour de force; a once-in-a-generation opportunity to take stock.' - Dr Steven Hill, Head of Policy, HEFCE, LSE Impact of Social Sciences Blog 'A must-read if you are interested in having a deeper understanding of research culture, management issues and the range of information we have on this field. It should be disseminated and discussed within institutions, disciplines and other sites of research collaboration.' - Dr Meera Sabaratnam, Lecturer in International Relations at the School of Oriental and African Studies, University of London, LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community. A commitment to using data and evidence to inform decisions makes many of us sympathetic, even enthusiastic, about the prospect of granular, real-time analysis of our own activities. Yet we only have to look around us at the blunt use of metrics to be reminded of the pitfalls. Metrics hold real power: they are constitutive of values, identities and livelihoods. How to exercise that power to positive ends is the focus of this book. Using extensive evidence-gathering, analysis and consultation, the authors take a thorough look at potential uses and limitations of research metrics and indicators. They explore the use of metrics across different disciplines, assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems. Finally, they consider the negative or unintended effects of metrics on various aspects of research culture. Including an updated introduction from James Wilsdon, the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management, by funders, and in the next cycle of the Research

Excellence Framework. The metric tide is certainly rising. Unlike King Canute, we have the agency and opportunity – and in this book, a serious body of evidence – to influence how it washes through higher education and research.

**journal of cell science impact factor 2022: Protein Engineering and Design** Paul R. Carey, 1996-06-21 The design and production of novel peptides and proteins occupy pivotal positions in science and technology and will continue to do so in the 21st century. Protein Engineering and Design outlines the rapid advances in computer-based modeling, protein engineering, and methods needed for protein and peptide preparation and characterization. This indispensable reference lays the groundwork for understanding this multidisciplinary activity while providing an introduction for researchers and students to the field of protein design. - Introduces and defines the techniques involved in protein engineering and design - Provides a concise overview of key technologies involved and demonstrates their contributions to the specialized design and production of novel proteins and peptides

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