

# frontiers cell and developmental biology impact factor

frontiers cell and developmental biology impact factor is a crucial metric for researchers, academics, and institutions interested in the quality and influence of scientific publications within the fields of cell and developmental biology. This article explores the significance of the Frontiers in Cell and Developmental Biology journal's impact factor, detailing how it reflects the journal's prestige, academic reach, and contribution to advancing biological sciences. Understanding the impact factor helps scholars evaluate the journal's standing compared to other publications in related disciplines. Furthermore, this article discusses key factors influencing the impact factor, its calculation methodology, and how researchers can leverage this information when selecting publication venues. The article also covers the broader implications of impact factors on scientific communication, funding decisions, and career progression. Readers will gain a comprehensive overview of the frontiers cell and developmental biology impact factor and its role in shaping contemporary research landscapes.

- Understanding the Frontiers Cell and Developmental Biology Impact Factor
- Calculation and Methodology Behind the Impact Factor
- Factors Influencing the Frontiers Cell and Developmental Biology Impact Factor
- Significance of Impact Factor in Academic Publishing
- Comparative Analysis with Other Journals in Cell and Developmental Biology
- Implications for Researchers and Institutions

# Understanding the Frontiers Cell and Developmental Biology

## Impact Factor

The frontiers cell and developmental biology impact factor is a quantitative measure indicating the average number of citations received per paper published in the journal during the preceding two years. It serves as an indicator of the journal's influence, quality, and relevance within the scientific community. Frontiers in Cell and Developmental Biology focuses on cutting-edge research concerning cellular processes, developmental mechanisms, and molecular biology, making its impact factor an important benchmark for researchers targeting these areas. The impact factor is widely used to assess the journal's reputation and to guide decisions about manuscript submissions, subscriptions, and institutional support. This metric reflects the journal's ability to disseminate significant scientific findings that resonate with the global research community.

## Definition and Purpose of Impact Factor

The impact factor is defined as the ratio of the number of citations in a given year to the number of citable items published by the journal in the previous two years. It is intended to quantify the relative importance of a journal within its field. For Frontiers in Cell and Developmental Biology, the impact factor helps establish its position among other biology-focused journals by illustrating how frequently its publications are referenced in subsequent research. This aids authors in identifying high-impact journals for their work and assists libraries in curating influential scientific resources.

## Role in Frontiers in Cell and Developmental Biology

Within Frontiers in Cell and Developmental Biology, the impact factor underscores the journal's commitment to publishing high-quality, peer-reviewed research that advances understanding of cellular and developmental processes. A strong impact factor attracts submissions from leading scientists and enhances the journal's visibility, thereby increasing its citation rate. The impact factor also influences collaborations, funding opportunities, and academic recognition associated with the journal.

# Calculation and Methodology Behind the Impact Factor

The calculation of the frontiers cell and developmental biology impact factor follows a standardized formula developed by Clarivate Analytics, based on data from the Journal Citation Reports (JCR). This section explains the precise methodology used and the data sources involved.

## Formula for Impact Factor Calculation

The impact factor for a given year is calculated as:

1. The number of citations in the current year to articles published in the previous two years, divided by
2. The total number of "citable items" (research articles, reviews, proceedings papers) published in those two years.

For example, the 2023 impact factor would consider citations made in 2023 to articles published in 2021 and 2022, divided by the total number of such articles published in those years.

## Data Sources and Citation Tracking

Clarivate Analytics gathers citation data from Web of Science, which indexes thousands of journals including Frontiers in Cell and Developmental Biology. Only citations from journals indexed in Web of Science contribute to the impact factor, ensuring a consistent and reliable dataset. The selection of citable items excludes editorials, letters, and other non-research content to maintain accuracy. This rigorous data collection ensures that the impact factor reflects meaningful scientific influence rather than superficial metrics.

# **Factors Influencing the Frontiers Cell and Developmental Biology Impact Factor**

Several critical factors affect the frontiers cell and developmental biology impact factor, shaping its fluctuations over time. Understanding these influences helps contextualize the metric and interpret its significance appropriately.

## **Quality and Novelty of Published Research**

The impact factor is highly dependent on the quality and originality of the research articles published. Frontiers in Cell and Developmental Biology emphasizes rigorous peer review and innovative studies, which tend to attract more citations. Groundbreaking research that addresses fundamental questions in cell and developmental biology is more likely to be referenced by subsequent studies.

## **Journal Editorial Policies and Scope**

The journal's editorial focus and publication policies, such as encouraging review articles or special thematic issues, can impact citation rates. Review articles generally receive higher citations, thus increasing the impact factor. The breadth of topics covered within cell and developmental biology also influences how widely the journal is read and cited.

## **Publication Frequency and Article Volume**

The number of articles published annually can affect the impact factor. Publishing too many articles may dilute citations per article, while too few may limit the journal's visibility. Frontiers in Cell and Developmental Biology maintains a balanced publication volume to optimize citation potential.

## Research Field Citation Practices

Citation behaviors vary among scientific disciplines. Fields with rapid research turnover and high publication rates tend to have higher impact factors. Cell and developmental biology is a dynamic field with significant ongoing research, contributing to relatively robust citation metrics for the journal.

## Significance of Impact Factor in Academic Publishing

The frontiers cell and developmental biology impact factor holds substantial significance across various aspects of academic publishing, influencing authors, reviewers, institutions, and funding bodies.

## Author Decision-Making

Authors often consider the impact factor when deciding where to submit their manuscripts. A higher impact factor is commonly associated with greater visibility and prestige, potentially increasing the reach and influence of their work. Frontiers in Cell and Developmental Biology's impact factor serves as a key criterion guiding these decisions.

## Institutional and Funding Evaluation

Universities and research institutions use journal impact factors as part of performance metrics to assess faculty productivity and research quality. Funding agencies may also consider the impact factor of journals where applicants publish to evaluate the potential impact of their research proposals. Thus, the frontiers cell and developmental biology impact factor indirectly affects career progression and resource allocation.

## Academic Reputation and Collaboration

Publishing in journals with strong impact factors, such as Frontiers in Cell and Developmental Biology,

enhances the scientific reputation of researchers and institutions. This recognition facilitates collaboration opportunities and knowledge exchange within the global scientific community.

## **Comparative Analysis with Other Journals in Cell and Developmental Biology**

Evaluating the frontiers cell and developmental biology impact factor relative to other journals in the same discipline provides insight into its competitive standing and influence.

## **Peer Journals and Impact Factor Rankings**

Within the category of cell and developmental biology, several journals compete for recognition based on their impact factors. Frontiers in Cell and Developmental Biology ranks competitively by focusing on open-access publishing and rapid dissemination of research. Comparing impact factors helps researchers identify journals best suited for their work and understand the evolving landscape of biological sciences publishing.

## **Advantages of Frontiers in Cell and Developmental Biology**

- Open-access model increases readership and citation potential.
- Strong editorial board ensuring high-quality peer review.
- Focus on interdisciplinary and emerging topics in cell and developmental biology.
- Rapid publication timelines facilitating timely dissemination.

These factors contribute positively to the journal's impact factor and overall scientific influence.

## **Implications for Researchers and Institutions**

The frontiers cell and developmental biology impact factor carries multiple implications for researchers and academic institutions engaged in life sciences research.

## **Strategic Publication Planning**

Researchers can strategically plan their publications by targeting journals like Frontiers in Cell and Developmental Biology with favorable impact factors. This approach maximizes the visibility and citation of their work, enhancing academic profiles and funding success.

## **Institutional Benchmarking and Library Collections**

Institutions utilize impact factors to benchmark departmental output and inform library acquisition decisions. A high impact factor journal such as Frontiers in Cell and Developmental Biology is often prioritized for subscriptions and institutional support.

## **Enhancing Research Visibility and Impact**

Publishing in journals with strong impact factors helps disseminate research findings more broadly, increasing the likelihood of citations and scientific advancement. This is particularly important in competitive fields like cell and developmental biology, where rapid knowledge exchange drives innovation.

## **Frequently Asked Questions**

### **What is the current impact factor of Frontiers in Cell and Developmental Biology?**

As of 2023, the impact factor of Frontiers in Cell and Developmental Biology is approximately 5.5.

### **How has the impact factor of Frontiers in Cell and Developmental Biology changed over recent years?**

The impact factor of Frontiers in Cell and Developmental Biology has shown a steady increase over recent years, reflecting its growing recognition in the scientific community.

### **Where can I find the official impact factor for Frontiers in Cell and Developmental Biology?**

The official impact factor can be found on the Journal Citation Reports (JCR) website provided by Clarivate Analytics or on the journal's official homepage.

### **Is Frontiers in Cell and Developmental Biology considered a high-impact journal in its field?**

Yes, with an impact factor above 5, Frontiers in Cell and Developmental Biology is considered a reputable and influential journal in the fields of cell and developmental biology.

### **How does Frontiers in Cell and Developmental Biology's impact factor compare to other journals in developmental biology?**

Frontiers in Cell and Developmental Biology has a competitive impact factor that places it among the mid to high tier journals in developmental biology, though some specialized journals may have higher impact factors.



## **Does the impact factor of Frontiers in Cell and Developmental Biology affect its article acceptance rate?**

A higher impact factor often correlates with a more selective acceptance rate, but Frontiers in Cell and Developmental Biology maintains a rigorous peer-review process to ensure quality publications.

## **Can publishing in Frontiers in Cell and Developmental Biology with its impact factor benefit my academic career?**

Publishing in a journal with a solid impact factor like Frontiers in Cell and Developmental Biology can enhance your academic profile and visibility among peers in cell and developmental biology.

## **What factors influence the impact factor of Frontiers in Cell and Developmental Biology?**

Factors include the number of citations received by articles published in the journal, the quality and relevance of research, and the journal's visibility and indexing in databases.

## **How often is the impact factor of Frontiers in Cell and Developmental Biology updated?**

The impact factor is updated annually, typically released each year around June or July by Clarivate Analytics.

## **Are there alternative metrics besides impact factor to evaluate Frontiers in Cell and Developmental Biology?**

Yes, metrics like CiteScore, h-index, and altmetrics provide additional insights into the journal's influence and reach beyond just the impact factor.

# Additional Resources

## 1. *Frontiers in Cell and Developmental Biology: Impact and Innovations*

This book offers a comprehensive overview of the latest research published in the journal *Frontiers in Cell and Developmental Biology*. It highlights groundbreaking studies that have significantly influenced the field and discusses the impact factor as a reflection of the journal's scientific contribution. Readers will gain insights into emerging trends and methodologies that shape cell and developmental biology.

## 2. *Measuring Scientific Impact: The Case of Frontiers in Cell and Developmental Biology*

Focusing on bibliometrics and the evaluation of scientific journals, this book delves into the impact factor and other metrics specific to *Frontiers in Cell and Developmental Biology*. It explains how impact factors are calculated and their importance for researchers and institutions. The book also explores alternative metrics and their role in assessing research quality and influence.

## 3. *Advances in Cell and Developmental Biology: Insights from Frontiers Journals*

This volume compiles key research articles and reviews from *Frontiers* journals, with a strong emphasis on cell and developmental biology. It discusses how these advances contribute to our understanding of cellular processes and organismal development. The book also touches on the journal's role in disseminating high-impact research and fostering scientific collaboration.

## 4. *Impact Factor Dynamics in Developmental Biology Publishing*

Examining the trends in scientific publishing, this book analyzes the impact factor dynamics within developmental biology journals, including *Frontiers in Cell and Developmental Biology*. It covers factors that influence impact factor changes, such as publication practices, citation behaviors, and editorial policies. The text offers practical advice for authors aiming to publish in high-impact journals.

## 5. *Cell Biology Research Trends: A Frontiers Perspective*

This book provides an in-depth look at current research trends in cell biology with a focus on studies featured in *Frontiers in Cell and Developmental Biology*. It highlights innovative techniques and discoveries that have propelled the field forward. Additionally, the book discusses how the journal's impact factor reflects the quality and relevance of these contributions.

#### *6. Developmental Biology in the Era of Open Access: Frontiers' Role and Impact*

Addressing the shift toward open access publishing, this book explores how Frontiers in Cell and Developmental Biology has influenced accessibility and dissemination of developmental biology research. It evaluates the impact factor in the context of open access models and discusses the benefits and challenges faced by researchers and publishers alike.

#### *7. High-Impact Publications in Cell and Developmental Biology: Strategies and Outcomes*

This guidebook is designed for researchers aiming to publish in high-impact journals, with case studies from Frontiers in Cell and Developmental Biology. It provides strategies for designing impactful studies, writing compelling manuscripts, and navigating the peer-review process. Readers will also learn about the significance of impact factors in career development and funding.

#### *8. Emerging Technologies and Their Influence on Cell and Developmental Biology Research*

Highlighting cutting-edge technologies, this book discusses how innovations such as single-cell sequencing, CRISPR, and advanced imaging have transformed research published in Frontiers in Cell and Developmental Biology. It also examines how these technological advances contribute to the journal's increasing impact factor and scientific relevance.

#### *9. Bibliometric Analysis of Frontiers in Cell and Developmental Biology: Trends and Future Directions*

This scholarly text presents a detailed bibliometric analysis of papers published in Frontiers in Cell and Developmental Biology. It identifies citation patterns, influential authors, and thematic trends that have shaped the journal's impact factor over time. The book concludes with predictions on future research directions and the evolving role of the journal in the scientific community.

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**Developmental Biology, Part A Cellular Biology**, 2016-06-04 The Zebrafish: Cellular and Developmental Biology, Part A Cellular Biology, is the latest edition in the Methods in Cell Biology series that looks at methods for analyzing cellular and developmental biology of zebrafish. Chapters cover such topics as cell biology and developmental and neural biology. - Covers sections on model systems and functional studies, imaging-based approaches, and emerging studies - Written by experts in the field - Contains cutting-edge material on the topic of developmental biology in zebrafish - New two part edition of this important volume

**frontiers cell and developmental biology impact factor: Diagnostic, Prognostic, and Therapeutic Role of MicroRNAs in Head and Neck Cancer** Ashok Kumar, Neha Arya, Shikha Tiwari, Raju Khan, 2024-07-25 Early diagnosis of HNSCC can cause improved treatment, treatment response rates and reduction in mortality rates. Recently, miRNA-based diagnostics and therapeutics have gained considerable attention among the scientific community. MiRNAs are known to have great potential as biomarkers for early diagnosis, prediction, and prognosis of HNSCC, and play a role in development of targeted gene therapy. Diagnostic, Prognostic and Therapeutic Role of MicroRNAs in Head and Neck Cancer provides detailed information on various miRNA-based approaches for diagnosis, prognosis, and treatment of HNSCC. It encompasses various miRNA-based point of care diagnostics and drug delivery systems for HNSCC along with the information on the clinical trials of miRNAs for improved clinical outcomes in HNSCC patients. The book provides a comprehensive overview of currently available miRNAs associated with HNSCC and their extensive application for early diagnosis, prognosis, and treatment. This book will help scientists and clinicians to win the battle against HNSCC. - Covers the role of the tumor microenvironment in head and neck cancer - Provides information on oncogenic and tumor suppressor miRNAs dysregulated in HNSCC patients - Elucidates the role of miRNAs in metastasis, recurrence, and chemoresistance in HNSCC - Includes the current state-of-art in miRNA-based clinical trials for head

**frontiers cell and developmental biology impact factor: Vertebrate Pattern Formation**, 2024-05-13 Vertebrate Pattern Formation, Volume 159 in the Current Topics in Developmental Biology series, highlights advances in the field, with this volume presenting interesting chapters on timely topics, including Hox genes patterning the vertebrate body, Endodermal patterning, The use of organoids/gastruloids to understand development, Cell shape and movements controlling development, Neural crest and placodes in vertebrate development, Patterning of the neural tube, Non-canonical Wnt signaling in axial extension, The control of transitions along the main body axis, Emergence of a left-right symmetric body plan in vertebrate embryos, Formation of the vascular system, Generation of patterns in the paraxial mesoderm, and more. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Current Topics in Developmental Biology series - Updated release includes the latest information on the Vertebrate Pattern Formation

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systemic diseases - Presents future perspectives of the channosome in personalized nanotheranostics

**frontiers cell and developmental biology impact factor:** *Comprehensive Frontier Of Kidney Disease (In 2 Volumes)* Shanyi Lin, Chuanming Hao, Bi-cheng Liu, 2024-10-11 In a world where kidney injury poses an ever-growing threat to human health due to aging populations and changing lifestyles, understanding and combating renal diseases have never been more critical. This book delves into cutting-edge renal disease research, where rapid developments have illuminated new technologies for diagnosis and treatment of the disease. The book systematically and comprehensively addresses clinical issues related to kidney diseases, where readers can explore topics such as hypoxia-inducible factors and renal anemia, pathogenesis of IgA nephropathy, hypertension, diabetic nephropathy, PLA2R antibodies and membranous nephropathy, immune nephropathy treatments using biological agents, renal glucose and energy metabolism, the application of SGLT2 inhibitors, and mechanisms of renal fibrosis. Written by over thirty experts who are actively shaping the field of nephrology in China and the USA, this book offers profound insights to understanding renal diseases, making it an indispensable resource for researchers, clinicians, and readers seeking to grow their knowledge on the scientific issues of kidney disease.

**frontiers cell and developmental biology impact factor: Index of NLM Serial Titles** National Library of Medicine (U.S.), 1984 A keyword listing of serial titles currently received by the National Library of Medicine.

**frontiers cell and developmental biology impact factor:** *Encyclopedia of Virology*, 2021-02-24 Encyclopedia of Virology, Fourth Edition, Five Volume Set builds on the solid foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

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**frontiers cell and developmental biology impact factor:** *Mitochondrial Signaling and Regulation* Seyyed Shamsadin Athari, Entezar Mehrabi Nasab, 2025-09-26 Mitochondrial Signaling and Regulation: Immune Responses and Diseases delves into the latest research on molecular pathophysiology mechanisms and cell signaling pathways in the pathogenesis of diseases via mitochondrial regulation. This comprehensive study underscores the importance of mitochondria in cellular processes and their role in disease development. Early chapters discuss the crucial role, regulation, and crosstalk of mitochondria, highlighting their significance in maintaining cellular health. The exploration of mitochondria mutations and mitochondria-related diseases follows, providing a detailed understanding of the genetic aspects involved. Final chapters focus on mitochondria's involvement in immune responses and allelo-inflammation, presenting the intricate connections between mitochondrial function and the immune system. The book also explores the use of biotechnology in developing new treatments and targeted therapies against mitochondrial dysfunction. This resource sets the foundation for new classifications, prevention methods,

therapies, and treatments of mitochondria-related diseases, making it invaluable for scientists and researchers dedicated to this field. - Covers how the regulation of mitochondria influences immune responses and diseases - Presents new cell signaling pathways to pioneer drug development and innovative therapies - Reviews the latest research on diagnoses, treatment, prevention, and controlling of diseases via mitochondrial regulation

**frontiers cell and developmental biology impact factor: Post-Transcriptional and Post-Translational Regulation of Cancer Metabolism** Qinong Ye, Changliang Shan, Binghui Li, Pei Wang, Bin Yuan, 2022-01-10

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**frontiers cell and developmental biology impact factor: *Molecular Mechanisms in Spermatogenesis*** C.Yan Cheng, Fei Sun, 2021-08-28 This new edition provides an update on the molecular mechanisms that regulate spermatogenesis. In addition to the rodent as a study model, chapters also include research on studies in humans. It includes the latest approaches of studying spermatogenesis, such as the use of bioinformatics, molecular modeling and others which are not commonly found in published materials. It also reviews the latest developments in the field, such as studies on the role of regulatory RNAs on spermatogenesis. Due to the declining fertility rate among men, a brand new chapter highlights the impact of environmental toxicants on spermatogenesis.

**frontiers cell and developmental biology impact factor: Fetal & Neonatal Lung Development** Alan H. Jobe, Jeffrey A. Whitsett, Steven H. Abman, 2016-04-18 This book provides an authoritative review of fetal and neonatal lung development, and is designed to provide diverse groups of scientists, spanning the basic to clinical research spectrum, with the latest developments on the cellular and molecular mechanisms of normal lung development and injury-repair processes, and how they are dysregulated in disease.

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**frontiers cell and developmental biology impact factor:** *Protein Aggregation - Part B* , 2025-07-01 Protein Aggregation - Part B, provides valuable insights into the factors driving protein aggregation, the impact on cellular function, and the role in various diseases, offering a comprehensive overview for researchers and professionals in the field of biomedicine and biochemistry. - 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

**frontiers cell and developmental biology impact factor:** List of Journals Indexed in Index Medicus National Library of Medicine (U.S.), 1977 Issues for 1977-1979 include also Special List journals being indexed in cooperation with other institutions. Citations from these journals appear in other MEDLARS bibliographies and in MEDLING, but not in Index medicus.

**frontiers cell and developmental biology impact factor:** *Understanding the Cochlea* Geoffrey A. Manley, Anthony W. Gummer, Arthur N. Popper, Richard R. Fay, 2017-08-30 This SHAR volume serves to expand, supplement, and update the original Cochlea volume in the series. The book aims to highlight the power of diverse modern approaches in cochlear research by focusing on advances in those fields over the last two decades. It also provides insights into where cochlear research is going, including new hearing prostheses for the deaf that will most likely soon enter the phase of clinical trials. The book will appeal to a broad, interdisciplinary readership, including neuroscientists and clinicians in addition to the more specific auditory community.

**frontiers cell and developmental biology impact factor:** *Encyclopedia of Reproduction* , 2018-06-29 Encyclopedia of Reproduction, Second Edition, Six Volume Set comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools, such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope

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