

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR IS A CRITICAL METRIC FOR RESEARCHERS, ACADEMICIANS, AND INSTITUTIONS AIMING TO GAUGE THE INFLUENCE AND PRESTIGE OF THIS SCIENTIFIC JOURNAL WITHIN THE FIELDS OF CELL AND DEVELOPMENTAL BIOLOGY. THIS ARTICLE EXPLORES THE IMPACT FACTOR OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY, PROVIDING INSIGHTS INTO ITS SIGNIFICANCE, CALCULATION, AND COMPARISON WITH OTHER LEADING JOURNALS. ADDITIONALLY, THE DISCUSSION WILL COVER FACTORS INFLUENCING THE JOURNAL'S IMPACT AND HOW IT REFLECTS THE QUALITY AND REACH OF PUBLISHED RESEARCH. UNDERSTANDING THE VALUE OF THIS IMPACT FACTOR CAN AID AUTHORS IN SELECTING APPROPRIATE PUBLICATION VENUES AND HELP READERS ASSESS THE CREDIBILITY OF ARTICLES WITHIN THIS SPECIALIZED DOMAIN. THE FOLLOWING SECTIONS WILL PROVIDE A COMPREHENSIVE OVERVIEW AND DETAILED ANALYSIS, ENSURING A WELL-ROUNDED PERSPECTIVE ON THE TOPIC.

- UNDERSTANDING THE IMPACT FACTOR
- OVERVIEW OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY
- CURRENT IMPACT FACTOR AND ITS SIGNIFICANCE
- FACTORS AFFECTING THE IMPACT FACTOR
- COMPARISON WITH OTHER JOURNALS IN THE FIELD
- IMPLICATIONS FOR RESEARCHERS AND INSTITUTIONS

UNDERSTANDING THE IMPACT FACTOR

THE IMPACT FACTOR IS A WIDELY RECOGNIZED METRIC USED TO EVALUATE THE RELATIVE IMPORTANCE OF A SCIENTIFIC JOURNAL WITHIN ITS FIELD. IT IS CALCULATED BASED ON THE AVERAGE NUMBER OF CITATIONS RECEIVED BY ARTICLES PUBLISHED IN THE JOURNAL OVER A SPECIFIED PERIOD, TYPICALLY TWO YEARS. THE HIGHER THE IMPACT FACTOR, THE MORE INFLUENTIAL THE JOURNAL IS CONSIDERED TO BE. THIS METRIC HELPS RESEARCHERS IDENTIFY JOURNALS WITH SIGNIFICANT REACH AND AUTHORITY, GUIDING DECISIONS ON WHERE TO PUBLISH THEIR WORK.

HOW THE IMPACT FACTOR IS CALCULATED

THE IMPACT FACTOR FOR ANY JOURNAL, INCLUDING FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY, IS CALCULATED BY DIVIDING THE NUMBER OF CITATIONS IN A GIVEN YEAR TO ARTICLES PUBLISHED IN THE PREVIOUS TWO YEARS BY THE TOTAL NUMBER OF "CITABLE ITEMS" PUBLISHED IN THOSE TWO YEARS. CITABLE ITEMS GENERALLY INCLUDE ORIGINAL RESEARCH ARTICLES AND REVIEWS BUT EXCLUDE EDITORIALS OR LETTERS. THIS FORMULA PROVIDES AN AVERAGE CITATION COUNT PER ARTICLE, REFLECTING THE JOURNAL'S INFLUENCE IN DISSEMINATING IMPACTFUL RESEARCH.

LIMITATIONS AND CRITICISMS

WHILE THE IMPACT FACTOR IS A VALUABLE INDICATOR, IT HAS ITS LIMITATIONS AND HAS FACED CRITICISM. THE METRIC DOES NOT ACCOUNT FOR VARIATIONS IN CITATION PRACTICES ACROSS DISCIPLINES, NOR DOES IT REFLECT THE QUALITY OF INDIVIDUAL ARTICLES. ADDITIONALLY, JOURNALS WITH A FOCUS ON REVIEW ARTICLES MAY HAVE ARTIFICIALLY INFLATED

IMPACT FACTORS DUE TO THE HIGHER CITATION RATES OF REVIEWS COMPARED TO ORIGINAL RESEARCH. THEREFORE, THE IMPACT FACTOR SHOULD BE CONSIDERED ALONGSIDE OTHER QUALITATIVE AND QUANTITATIVE MEASURES WHEN EVALUATING A JOURNAL.

OVERVIEW OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IS AN OPEN-ACCESS, PEER-REVIEWED JOURNAL DEDICATED TO PUBLISHING CUTTING-EDGE RESEARCH IN CELLULAR AND DEVELOPMENTAL BIOLOGY. THE JOURNAL COVERS A BROAD SPECTRUM OF TOPICS, INCLUDING MOLECULAR MECHANISMS, CELL SIGNALING, DEVELOPMENTAL PROCESSES, STEM CELL BIOLOGY, AND REGENERATIVE MEDICINE. IT IS PART OF THE FRONTIERS PUBLISHING GROUP, KNOWN FOR ITS INNOVATIVE APPROACH TO SCIENTIFIC PUBLISHING AND EMPHASIS ON TRANSPARENCY AND ACCESSIBILITY.

SCOPE AND AUDIENCE

THE JOURNAL TARGETS RESEARCHERS, CLINICIANS, AND ACADEMICIANS INTERESTED IN THE FUNDAMENTAL ASPECTS OF CELL BIOLOGY AND DEVELOPMENTAL PROCESSES. ITS BROAD SCOPE ENCOMPASSES BOTH BASIC AND APPLIED RESEARCH, FACILITATING INTERDISCIPLINARY COLLABORATION AND KNOWLEDGE EXCHANGE ACROSS RELATED FIELDS SUCH AS GENETICS, MOLECULAR BIOLOGY, AND BIOMEDICAL SCIENCES.

PUBLICATION MODEL AND PEER REVIEW

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY OPERATES UNDER AN OPEN-ACCESS PUBLISHING MODEL, ENSURING THAT ALL ARTICLES ARE FREELY AVAILABLE TO THE SCIENTIFIC COMMUNITY AND THE PUBLIC. THE JOURNAL EMPLOYS A RIGOROUS PEER-REVIEW PROCESS, INVOLVING EXPERTS IN RELEVANT DISCIPLINES TO MAINTAIN HIGH STANDARDS OF SCIENTIFIC QUALITY AND INTEGRITY. THIS TRANSPARENT AND COLLABORATIVE REVIEW SYSTEM CONTRIBUTES TO THE JOURNAL'S REPUTATION AND IMPACT.

CURRENT IMPACT FACTOR AND ITS SIGNIFICANCE

THE MOST RECENT FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR REFLECTS THE JOURNAL'S GROWING PROMINENCE WITHIN ITS SCIENTIFIC COMMUNITY. AS OF THE LATEST AVAILABLE DATA, THE JOURNAL'S IMPACT FACTOR STANDS AT A COMPETITIVE LEVEL COMPARED TO OTHER SPECIALIZED JOURNALS IN CELL AND DEVELOPMENTAL BIOLOGY. THIS METRIC UNDERSCORES THE INCREASING CITATION RATE OF ARTICLES PUBLISHED IN THE JOURNAL, INDICATING THAT ITS CONTENT IS WIDELY RECOGNIZED AND UTILIZED BY RESEARCHERS WORLDWIDE.

TRENDS IN IMPACT FACTOR GROWTH

THE IMPACT FACTOR OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY HAS SHOWN A CONSISTENT UPWARD TREND SINCE ITS INCEPTION. THIS GROWTH IS INDICATIVE OF THE JOURNAL'S EXPANDING INFLUENCE AND THE RISING QUALITY AND RELEVANCE OF ITS PUBLISHED RESEARCH. INCREASED VISIBILITY AND ACCESSIBILITY THROUGH THE OPEN-ACCESS MODEL HAVE ALSO CONTRIBUTED TO HIGHER CITATION RATES AND BROADER READERSHIP.

SIGNIFICANCE FOR THE SCIENTIFIC COMMUNITY

A STRONG IMPACT FACTOR ENHANCES THE JOURNAL'S ATTRACTIVENESS TO HIGH-QUALITY MANUSCRIPTS AND ENCOURAGES RESEARCHERS TO SUBMIT SIGNIFICANT FINDINGS. IT ALSO BENEFITS READERS BY PROVIDING ACCESS TO INFLUENTIAL AND WELL-CITED RESEARCH THAT ADVANCES UNDERSTANDING IN CELL AND DEVELOPMENTAL BIOLOGY. INSTITUTIONS MAY CONSIDER THE JOURNAL'S IMPACT FACTOR WHEN EVALUATING RESEARCH OUTPUT AND FACULTY PERFORMANCE.

FACTORS AFFECTING THE IMPACT FACTOR

SEVERAL ELEMENTS INFLUENCE THE FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR, INCLUDING EDITORIAL POLICIES, PUBLICATION PRACTICES, AND THE NATURE OF THE RESEARCH FIELD. UNDERSTANDING THESE FACTORS PROVIDES INSIGHT INTO HOW THE JOURNAL MAINTAINS AND IMPROVES ITS STANDING.

QUALITY AND RELEVANCE OF PUBLISHED RESEARCH

THE SCIENTIFIC RIGOR AND NOVELTY OF ARTICLES DIRECTLY AFFECT CITATION RATES. HIGH-QUALITY, INNOVATIVE STUDIES TEND TO ATTRACT MORE CITATIONS, THEREBY BOOSTING THE IMPACT FACTOR. THE JOURNAL'S COMMITMENT TO RIGOROUS PEER REVIEW AND SELECTION OF IMPACTFUL RESEARCH IS INSTRUMENTAL IN THIS REGARD.

OPEN ACCESS AND VISIBILITY

BEING AN OPEN-ACCESS JOURNAL, FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY BENEFITS FROM UNRESTRICTED ACCESS, WHICH ENHANCES VISIBILITY AND ACCESSIBILITY. THIS OPENNESS OFTEN LEADS TO HIGHER CITATION RATES COMPARED TO SUBSCRIPTION-BASED JOURNALS, POSITIVELY INFLUENCING THE IMPACT FACTOR.

EDITORIAL STRATEGIES

EDITORIAL INITIATIVES SUCH AS INVITING REVIEW ARTICLES, SPECIAL ISSUES ON TRENDING TOPICS, AND ENCOURAGING INTERDISCIPLINARY RESEARCH CAN INCREASE CITATIONS. REVIEW ARTICLES, IN PARTICULAR, TEND TO BE CITED MORE FREQUENTLY, THUS RAISING THE JOURNAL'S OVERALL IMPACT FACTOR.

COMPARISON WITH OTHER JOURNALS IN THE FIELD

COMPARING THE FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR WITH THOSE OF OTHER JOURNALS IN RELATED DISCIPLINES ENABLES A CONTEXTUAL UNDERSTANDING OF ITS STANDING. THIS COMPARISON HIGHLIGHTS THE JOURNAL'S POSITION AMONG PEERS AND ITS ROLE IN ADVANCING SCIENTIFIC KNOWLEDGE.

LEADING JOURNALS IN CELL BIOLOGY AND DEVELOPMENTAL BIOLOGY

JOURNALS SUCH AS CELL, DEVELOPMENTAL CELL, AND DEVELOPMENT ARE RENOWNED FOR THEIR HIGH IMPACT FACTORS AND BROAD INFLUENCE. WHILE FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY MAY HAVE A LOWER IMPACT FACTOR THAN THESE ESTABLISHED TITLES, IT IS RECOGNIZED FOR ITS SPECIALIZED FOCUS AND OPEN-ACCESS MODEL, OFFERING UNIQUE ADVANTAGES TO AUTHORS AND READERS ALIKE.

STRENGTHS RELATIVE TO PEER JOURNALS

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY STANDS OUT DUE TO ITS RAPID PUBLICATION PROCESS, TRANSPARENT PEER REVIEW, AND ACCESSIBILITY. THESE FACTORS CONTRIBUTE TO ITS RISING CITATIONS AND REPUTATION, MAKING IT AN ATTRACTIVE OPTION FOR RESEARCHERS SEEKING VISIBILITY AND IMPACT WITHIN THE CELL AND DEVELOPMENTAL BIOLOGY COMMUNITY.

IMPLICATIONS FOR RESEARCHERS AND INSTITUTIONS

THE FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IMPACT FACTOR HOLDS PRACTICAL IMPLICATIONS FOR RESEARCHERS, INSTITUTIONS, AND FUNDING BODIES. IT SERVES AS A BENCHMARK FOR EVALUATING THE QUALITY AND INFLUENCE OF PUBLISHED WORK AND CAN INFLUENCE CAREER ADVANCEMENT, GRANT DECISIONS, AND INSTITUTIONAL RANKINGS.

CHOOSING THE RIGHT JOURNAL FOR PUBLICATION

AUTHORS OFTEN CONSIDER THE IMPACT FACTOR WHEN SELECTING A JOURNAL TO MAXIMIZE THE REACH AND CITATION POTENTIAL OF THEIR RESEARCH. FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY OFFERS A CREDIBLE AND GROWING PLATFORM, PARTICULARLY SUITED FOR STUDIES EMPHASIZING CELLULAR AND DEVELOPMENTAL MECHANISMS WITH BROAD INTERDISCIPLINARY RELEVANCE.

INSTITUTIONAL AND FUNDING PERSPECTIVES

INSTITUTIONS MAY USE THE JOURNAL'S IMPACT FACTOR AS PART OF RESEARCH EVALUATION METRICS, INFLUENCING TENURE AND PROMOTION DECISIONS. FUNDING AGENCIES MIGHT ALSO CONSIDER PUBLICATIONS IN HIGH-IMPACT JOURNALS AS INDICATORS OF RESEARCH EXCELLENCE, IMPACTING FUNDING ALLOCATIONS AND SUPPORT.

1. RIGOROUS PEER REVIEW ENSURING QUALITY RESEARCH
2. OPEN-ACCESS PUBLISHING ENHANCING VISIBILITY
3. INTERDISCIPLINARY SCOPE ATTRACTING DIVERSE CITATIONS
4. REGULAR PUBLICATION OF REVIEW ARTICLES BOOSTING CITATION RATES
5. STRONG EDITORIAL POLICIES PROMOTING IMPACTFUL SCIENCE

FREQUENTLY ASKED QUESTIONS

WHAT IS THE CURRENT IMPACT FACTOR OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY?

AS OF THE LATEST JOURNAL CITATION REPORTS, THE IMPACT FACTOR OF FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY IS APPROXIMATELY 6.2.

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 consistent upward trend over recent years, reflecting growing recognition and citation of its published research.

How does the impact factor of Frontiers in Cell and Developmental Biology compare to other journals in the field?

Frontiers in Cell and Developmental Biology has a competitive impact factor that places it among reputable journals in cell and developmental biology, though some established journals may have higher impact factors.

Why is the impact factor important for Frontiers in Cell and Developmental Biology?

The impact factor is important as it indicates the average number of citations to recent articles, serving as a metric of the journal's influence and reputation 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 in the Journal Citation Reports released annually by Clarivate Analytics or on the journal's official website under its metrics section.

Additional Resources

1. *Advances in Cell and Developmental Biology: Impact and Innovations*

This book provides a comprehensive overview of the latest research trends and breakthroughs in cell and developmental biology. It highlights the role of high-impact journals, including Frontiers in Cell and Developmental Biology, in disseminating cutting-edge scientific knowledge. Readers will gain insights into emerging technologies and methodologies shaping the field.

2. *Frontiers in Cell Biology: Exploring Cellular Mechanisms and Impact*

Focusing on cellular mechanisms, this volume explores significant studies published in high-impact journals such as Frontiers in Cell and Developmental Biology. The book discusses the importance of impact factor in scientific publishing and how it drives research quality and visibility. It is an essential read for researchers aiming to publish their work and understand the journal landscape.

3. *Developmental Biology in the 21st Century: Impacts and Perspectives*

This title delves into the evolving field of developmental biology, emphasizing the influence of reputable journals on research dissemination. It examines how impact factors affect academic careers and funding opportunities. The book also includes case studies of landmark papers that have shaped current scientific paradigms.

4. *Impact Factors and Scientific Publishing in Cell and Developmental Biology*

An in-depth analysis of the role impact factors play in the field of cell and developmental biology, this book provides guidance on navigating the publishing process. It offers strategies for selecting journals, understanding metrics, and maximizing research impact. The text serves as a valuable resource for early-career scientists.

5. *Emerging Trends in Cell and Developmental Biology Research*

Highlighting cutting-edge research topics featured in journals like Frontiers in Cell and Developmental Biology, this book covers novel discoveries and technological advancements. It discusses how impact factors influence research priorities and funding. The book is ideal for scientists seeking to stay abreast of the latest

DEVELOPMENTS.

6. *SCIENTIFIC IMPACT AND FRONTIERS: ENHANCING VISIBILITY IN DEVELOPMENTAL BIOLOGY*

THIS BOOK ADDRESSES THE SIGNIFICANCE OF SCIENTIFIC IMPACT AND PUBLICATION STRATEGIES WITHIN DEVELOPMENTAL BIOLOGY. IT EXPLORES HOW RESEARCHERS CAN INCREASE THEIR WORK'S VISIBILITY THROUGH HIGH-IMPACT JOURNALS. PRACTICAL ADVICE ON MANUSCRIPT PREPARATION AND PEER REVIEW IS ALSO PROVIDED.

7. *CELLULAR DYNAMICS AND DEVELOPMENT: FRONTIERS AND FUTURE DIRECTIONS*

OFFERING A DETAILED EXAMINATION OF CELLULAR DYNAMICS, THIS BOOK SITUATES RECENT DISCOVERIES WITHIN THE BROADER CONTEXT OF DEVELOPMENTAL BIOLOGY. IT DISCUSSES THE ROLE OF PROMINENT JOURNALS IN SHAPING RESEARCH DIRECTIONS AND IMPACT. THE BOOK IS SUITABLE FOR BOTH STUDENTS AND ESTABLISHED RESEARCHERS.

8. *PUBLISHING EXCELLENCE IN CELL AND DEVELOPMENTAL BIOLOGY*

THIS GUIDEBOOK FOCUSES ON ACHIEVING PUBLISHING EXCELLENCE IN THE FIELDS OF CELL AND DEVELOPMENTAL BIOLOGY. IT EXPLAINS THE SIGNIFICANCE OF IMPACT FACTORS, JOURNAL SELECTION, AND ETHICAL CONSIDERATIONS. THE BOOK ALSO PROVIDES TIPS ON WRITING IMPACTFUL SCIENTIFIC MANUSCRIPTS.

9. *HIGH-IMPACT RESEARCH IN CELL AND DEVELOPMENTAL BIOLOGY*

FOCUSING ON PRODUCING AND RECOGNIZING HIGH-IMPACT RESEARCH, THIS BOOK EXAMINES CRITERIA THAT DEFINE INFLUENTIAL STUDIES IN CELL AND DEVELOPMENTAL BIOLOGY. IT HIGHLIGHTS CONTRIBUTIONS FROM LEADING JOURNALS, INCLUDING FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. THE TEXT ENCOURAGES RESEARCHERS TO AIM FOR EXCELLENCE AND INNOVATION IN THEIR WORK.

Frontiers In Cell And Developmental Biology Impact Factor

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frontiers in 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 in 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

frontiers in cell and developmental biology impact factor: The Zebrafish: Cellular and 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 in 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

frontiers in 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 allegro-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 in cell and developmental biology impact factor: Molecular Fluorescent Sensors for Cellular Studies Elizabeth J. New, 2022-08-15 Molecular Fluorescent Sensors for Cellular Studies Enables readers to fully understand the fundamentals and chemical principles of fluorescent sensing and the design of fluorescent sensors Fluorescent sensors are able to provide specific chemical information about cells and can be invaluable in understanding processes that underpin health and disease. Molecular Fluorescent Sensors for Cellular Studies provides an avenue into and overview of currently available fluorescent sensing technology and its application to biological imaging. This book aims to help the reader understand the principles of fluorescence and the mechanisms by which fluorescent sensors operate in order to ensure appropriate and optimal use of sensors. Key applications of fluorescent sensing are presented, with explanations not only of how new sensors can be designed, but also how existing sensors can be applied to various biological settings and conditions. Clear and engaging schematics throughout the book explain chemical principles of

sensing to the non-expert. Discusses the breadth of fluorescent sensors, from commercially available sensors to those reported in literature which are yet to be used widely Explains how fluorescent sensors operate for appropriate and optimal use from a theoretical standpoint Provides guidance on how to achieve optimal use of fluorescent sensors in practical settings Summarizes the principles behind fluorescent sensors and their design This work will be an invaluable resource for postgraduates and professionals in the fields of microscopy, bioimaging, and diagnostic imaging who wish to harness the information to improve practical applications and to gain key knowledge surrounding the many facets of fluorescent sensing. It is also of interest to medical and biological researchers working across industry, universities and medical institutes.

frontiers in cell and developmental biology impact factor: *Current Topics in Developmental Biology* , 2025-06-01 Fertilization and Activation of Development, Volume 162 in the Current Topics in Developmental Biology series, highlights new advances in the field, with this new volume presenting interesting chapters written by an international board of authors. Chapters in this new release include Fertilization and the fast block to polyspermy in the African Clawed Frog, *Xenopus laevis*: A historical perspective, The Mammalian Egg's Zona Pellucida, Fertilization, and Fertility, Function, structure, and regulation of the broadly conserved gamete membrane fusion protein, HAP2, Gamete activation for fertilization and seed development in flowering plants, Paternal contributions to mammalian zygote, and much more. Additional sections cover Ovarian follicle formation and activation, Cytoskeletal dynamics in gamete (pro)nuclear migration across flowering plants, animals, and yeast, and Luteinizing hormone-induced changes in the structure of mammalian preovulatory follicles. - Presents a comprehensive exploration of the fertilization process, including gamete interaction, fusion, and early embryonic development - Provides in-depth analysis of the molecular mechanisms underlying fertilization, sperm-egg recognition, and activation of embryonic development - Examines the key events and signaling pathways involved in activating embryonic development post-fertilization

frontiers in cell and developmental biology impact factor: *The Charnolosome as a Novel Nanotheranostic Biomarker* Sushil Sharma, 2024-09-30 The Charnolosome as a Novel Nanotheranostic Biomarker: Overcoming Future Challenges in Medicine provides an overview of the charnolosome and its potential as a biomarker of cell injury. Based on the author's original discovery of the charnoly body in the developing, undernourished rat cerebellar Purkinje neurons, this book delves into the potential for utilizing this mitochondria and lysosomal-derived intracellular organelle as a nanotheranostic biomarker to prevent and cure various diseases. The book discusses the cellular, molecular, genetic, and epigenetic mechanisms of charnolosomes and charnolosome-derived nano-vesicles. It also investigates the molecular mechanisms underlying auto-inflammatory, autoimmune, and infectious diseases resulting from their compromised mitochondrial bioenergetics, and the potential use of the charnolosome in preventing and curing such conditions. - Shares the latest knowledge on the charnolosome and charnolosome-derived nano-vesicles and their significance at a cellular and molecular level - Considers the charnolosome in relation to a range of conditions, including neurodegenerative, metabolic, and multi-drug resistant systemic diseases - Presents future perspectives of the charnolosome in personalized nanotheranostics

frontiers in cell and developmental biology impact factor: *Gene-Environment Interactions in Birth Defects and Developmental Disorders* , 2023-01-25 Gene-Environment Interactions in Birth Defects and Developmental Disorders, Volume 152, covers the multifactorial etiology of a variety of developmental disorders, including orofacial clefts, fetal alcohol spectrum disorders, autism, and others. The causes of individual cases of most common birth defects are unknown but likely involve a combination of genetic predisposition and environmental exposures. How these risk factors interact in the genesis of these conditions is still largely unknown and readers will find the latest information and ideas on these disorders, along with discussion of the challenges and opportunities for furthering knowledge in this area. - Presents latest information on gene-environment interactions in birth defects and developmental disorders - Covers multiple animal

model systems and human conditions - Includes discussion of the opportunities for discovery in a challenging area of biomedical research

frontiers in cell and developmental biology impact factor: The Discovery of New Medicines in Academia, 2024-07-24 The Discovery of New Medicines in Academia, Volume 100 highlight examples of discoveries originating in academia that have been successfully translated into promising therapeutics that have advanced into clinical trials. Chapters in this release cover Design and Discovery of Itaconate prodrugs for Alopecia Areata, Hydroxyl-Dendrimer Delivery System for Neurological Disease, Development of allosteric modulators of G protein-coupled receptors for Psychiatric Disease, Targeting the constitutively active ERK1/2 signaling kinase for cancer, mRNA reprogramming of myeloid cells for tumor immunotherapy, Development of novel drugs targeting protein-protein interactions, and much more. Additional sections cover Neuro-steroids and analogs for the treatment of epilepsy, Development of inhibitors of eukaryotic translation, Discovery/development of antiviral, anticancer and/or anti-inflammatory agents, Discovery of novel anti-infective agents, Targeting proliferating cell nuclear antigen (PCNA) for cancer, and Implementation and Evolution of Quantitative Systems Pharmacology to Patient Digital Twins and Biomimetic Twins. - Provides recent examples of successful academic drug discovery projects in multiple disease areas, including oncology, immunology, neurology, and infectious diseases - Presents diverse examples, including small molecule, biologic, and nanomedicine-based therapeutics - Discusses innovative artificial intelligence platforms utilized in academic drug discovery efforts

frontiers in cell and developmental biology impact factor: Nongenetic Information and Evolution Nelson R Cabej, 2024-11-06 Nongenetic Information and Evolution investigates the origin and nature of nongenetic information and its role in the mechanisms of evolutionary change. This book opens with an introduction to the theoretical background and forms of nongenetic information, alongside its relationship with genetic information. It then explores nongenetic information across the biological kingdoms, including animals, nonneural organisms, plants, and unicellulars. It also covers epigenetics as a form of nongenetic information, exploring DNA methylation, histone modifications, chromatin remodeling, and miRNA expression in this context. This book closes with a discussion of nongenetic information in evolution, considering evidence demonstrating its inheritance and hereditary impact. This book provides a detailed overview of the origin and evolutionary impact of nongenetic inheritance, delivering a basis for further understanding the occurrence of hereditary phenomena and transgenerational phenotypic changes that do not involve genes. This is a useful reference for researchers in the field of epigenetics, evolutionary biology, developmental biology, and cellular and molecular biology. - Explores the origin and causes of nongenetic information - Considers a broad range of biological systems from unicellular living organisms to highly complex organisms - Discusses the impact of nongenetic inheritance in the context of evolution

frontiers in 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 in cell and developmental biology impact factor: Application of Adult Stem Cells

in Regenerative Medicine Farshid Sefat, Morvarid Saeinasab, 2025-06-03 Application of Adult Stem Cells in Regenerative Medicine offers a comprehensive overview of tissue engineering using adult stem cells to treat various disorders throughout the human body. The book introduces readers to adult stem cells, tissue engineering, and their application in regenerative medicine. It covers many new and up-to-date techniques, providing a solid foundation for understanding the field. Written by global leaders, this resource is invaluable for anyone studying, researching, or working in the areas of adult stem cells, tissue engineering, or regenerative medicine. The book is divided into three parts. Part One provides an introduction to adult stem cells and their application in regenerative medicine. Part Two focuses on different body organ systems, including the nervous, respiratory, digestive, urinary, circulatory, endocrine, skeletal, reproductive, muscular, and ocular systems. Part Three concludes with a review of the future of adult stem cells in regenerative medicine. This structure ensures that readers gain a thorough understanding of the current state and future potential of adult stem cells in treating various disorders. - Provides extensive application of adult stems cells in tissue engineering and regenerative medicine - Presents various examples of adult stem cells for different organs within the human body - Discusses the latest innovations in adult stem cells

frontiers in cell and developmental biology impact factor: Cancer Bioinformatics , 2022-09-28 This book discusses the application of bioinformatics in cancer disease management. It covers general aspects of cancer as a disease but also as a success story in the translation of omics data in clinical settings. It provides an overview of the specific applications of bioinformatics tools in cancer epidemiology, prevention, and screening and in the identification of novel genetic and molecular biomarkers involved in cancer development. This is accomplished through the inclusion of numerous examples of the use of bioinformatics in precision oncology.

frontiers in 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.

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