#### IMPACT FACTOR OF BMC BIOLOGY

IMPACT FACTOR OF BMC BIOLOGY IS A CRITICAL METRIC WIDELY USED IN THE ACADEMIC AND SCIENTIFIC COMMUNITY TO EVALUATE THE SIGNIFICANCE AND INFLUENCE OF THIS PEER-REVIEWED OPEN-ACCESS JOURNAL. BMC BIOLOGY, KNOWN FOR PUBLISHING HIGH-QUALITY RESEARCH ACROSS A BROAD SPECTRUM OF BIOLOGICAL SCIENCES, HAS ESTABLISHED ITSELF AS A REPUTABLE PLATFORM FOR SCIENTISTS WORLDWIDE. THE IMPACT FACTOR SERVES AS A QUANTITATIVE MEASURE REFLECTING THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN THE JOURNAL. UNDERSTANDING THE IMPACT FACTOR OF BMC BIOLOGY PROVIDES INSIGHTS INTO ITS STANDING COMPARED TO OTHER JOURNALS IN THE FIELD AND HELPS RESEARCHERS MAKE INFORMED DECISIONS ABOUT WHERE TO PUBLISH THEIR WORK. THIS ARTICLE EXPLORES THE CALCULATION, SIGNIFICANCE, TRENDS, AND FACTORS INFLUENCING THE IMPACT FACTOR OF BMC BIOLOGY, ALONG WITH ITS ROLE IN ACADEMIC PUBLISHING AND SCIENTIFIC COMMUNICATION.

- Understanding the Impact Factor of BMC Biology
- Calculation and Methodology of Impact Factor
- TRENDS IN THE IMPACT FACTOR OF BMC BIOLOGY
- FACTORS INFLUENCING THE IMPACT FACTOR
- SIGNIFICANCE OF THE IMPACT FACTOR IN ACADEMIC PUBLISHING
- COMPARISON WITH OTHER BIOLOGY JOURNALS

### UNDERSTANDING THE IMPACT FACTOR OF BMC BIOLOGY

THE IMPACT FACTOR OF BMC BIOLOGY IS A BIBLIOMETRIC INDICATOR THAT REFLECTS THE AVERAGE NUMBER OF CITATIONS RECEIVED PER PAPER PUBLISHED IN THE JOURNAL DURING A SPECIFIC PERIOD, USUALLY TWO YEARS. IT IS WIDELY USED TO ASSESS THE RELATIVE IMPORTANCE OF JOURNALS WITHIN THE SCIENTIFIC COMMUNITY. BMC BIOLOGY COVERS A COMPREHENSIVE RANGE OF TOPICS IN BIOLOGICAL RESEARCH, INCLUDING MOLECULAR BIOLOGY, CELL BIOLOGY, ECOLOGY, AND EVOLUTIONARY BIOLOGY, CONTRIBUTING TO ITS CITATION METRICS. THE IMPACT FACTOR HELPS AUTHORS, INSTITUTIONS, AND FUNDING BODIES GAUGE THE JOURNAL'S INFLUENCE AND VISIBILITY IN THE SCIENTIFIC FIELD. IT IS IMPORTANT TO RECOGNIZE THAT WHILE THE IMPACT FACTOR IS A USEFUL METRIC, IT IS ONE OF SEVERAL INDICATORS THAT CONTRIBUTE TO THE OVERALL ASSESSMENT OF A JOURNAL'S QUALITY AND RELEVANCE.

#### DEFINITION AND PURPOSE

THE IMPACT FACTOR IS DEFINED AS THE RATIO OF CITATIONS RECEIVED IN A GIVEN YEAR TO ARTICLES PUBLISHED IN THE TWO PRECEDING YEARS. IT SERVES THE PURPOSE OF MEASURING THE CITATION IMPACT OF JOURNALS AND ASSISTS RESEARCHERS IN IDENTIFYING INFLUENTIAL PUBLICATIONS. FOR BMC BIOLOGY, THIS METRIC UNDERSCORES THE JOURNAL'S ROLE IN DISSEMINATING CUTTING-EDGE BIOLOGICAL RESEARCH AND ITS RECEPTION BY THE SCIENTIFIC COMMUNITY.

### SCOPE OF BMC BIOLOGY

BMC BIOLOGY IS AN OPEN-ACCESS JOURNAL PUBLISHING RESEARCH ARTICLES, REVIEWS, AND METHODOLOGIES IN ALL AREAS OF BIOLOGY. ITS BROAD SCOPE ATTRACTS DIVERSE SUBMISSIONS, WHICH IN TURN AFFECTS CITATION PATTERNS AND THE OVERALL IMPACT FACTOR. THE JOURNAL'S COMMITMENT TO OPEN ACCESS INCREASES VISIBILITY AND ACCESSIBILITY, POTENTIALLY ENHANCING CITATION RATES.

# CALCULATION AND METHODOLOGY OF IMPACT FACTOR

THE IMPACT FACTOR OF BMC BIOLOGY IS CALCULATED ANNUALLY BASED ON DATA COMPILED BY CITATION INDEXING SERVICES SUCH AS CLARIVATE ANALYTICS' JOURNAL CITATION REPORTS. THE CALCULATION INVOLVES A STRAIGHTFORWARD FORMULA BUT REQUIRES COMPREHENSIVE CITATION DATA AND PUBLICATION RECORDS.

# FORMULA FOR IMPACT FACTOR

THE STANDARD FORMULA FOR CALCULATING THE IMPACT FACTOR IS:

- 1. | DENTIFY THE NUMBER OF CITATIONS IN THE CURRENT YEAR TO ARTICLES PUBLISHED IN THE PREVIOUS TWO YEARS.
- 2. DIVIDE THIS CITATION COUNT BY THE TOTAL NUMBER OF "CITABLE" ARTICLES PUBLISHED IN THOSE TWO YEARS.

FOR EXAMPLE, THE 2023 IMPACT FACTOR WOULD BE CALCULATED BY DIVIDING THE NUMBER OF CITATIONS IN 2023 TO ARTICLES PUBLISHED IN 2021 AND 2022 BY THE TOTAL NUMBER OF ARTICLES PUBLISHED IN 2021 AND 2022.

### DATA SOURCES AND CITATION TRACKING

ACCURATE CITATION DATA IS ESSENTIAL FOR CALCULATING THE IMPACT FACTOR. INDEXING DATABASES TRACK CITATIONS FROM A WIDE RANGE OF JOURNALS, ENSURING A COMPREHENSIVE CITATION COUNT. BMC BIOLOGY'S PRESENCE IN MAJOR DATABASES ENHANCES THE RELIABILITY OF ITS IMPACT FACTOR CALCULATION.

# TRENDS IN THE IMPACT FACTOR OF BMC BIOLOGY

OVER RECENT YEARS, THE IMPACT FACTOR OF BMC BIOLOGY HAS DEMONSTRATED CONSISTENT GROWTH, REFLECTING THE INCREASING RECOGNITION OF THE JOURNAL WITHIN THE BIOLOGICAL SCIENCES COMMUNITY. THIS TREND INDICATES THE JOURNAL'S EXPANDING INFLUENCE AND THE HIGH QUALITY OF ITS PUBLISHED CONTENT.

### HISTORICAL IMPACT FACTOR GROWTH

Since its inception, BMC Biology has gradually increased its impact factor by attracting impactful research and fostering interdisciplinary studies. The journal's emphasis on rigorous peer review and open-access availability has contributed to a steady rise in citations.

#### RECENT DEVELOPMENTS

RECENT YEARS HAVE SEEN BMC BIOLOGY EMBRACE EMERGING FIELDS AND NOVEL RESEARCH METHODOLOGIES, BROADENING ITS APPEAL AND CITATION POTENTIAL. THIS STRATEGIC EDITORIAL APPROACH HAS POSITIVELY INFLUENCED ITS CITATION METRICS AND IMPACT FACTOR.

# FACTORS INFLUENCING THE IMPACT FACTOR

SEVERAL FACTORS CONTRIBUTE TO THE IMPACT FACTOR OF BMC BIOLOGY, INCLUDING PUBLICATION PRACTICES, EDITORIAL POLICIES, AND THE BROADER SCIENTIFIC ENVIRONMENT. UNDERSTANDING THESE FACTORS HELPS CLARIFY HOW IMPACT FACTORS CAN FLUCTUATE AND WHAT DRIVES CITATION BEHAVIOR.

#### PUBLICATION VOLUME AND ARTICLE TYPES

THE NUMBER AND TYPES OF ARTICLES PUBLISHED AFFECT THE IMPACT FACTOR. REVIEW ARTICLES OFTEN RECEIVE HIGHER CITATIONS THAN ORIGINAL RESEARCH PAPERS, SO JOURNALS THAT PUBLISH A BALANCED MIX CAN INFLUENCE THEIR IMPACT FACTOR. BMC BIOLOGY'S DIVERSE PUBLICATION PORTFOLIO SHAPES ITS CITATION LANDSCAPE.

### OPEN ACCESS AND VISIBILITY

AS AN OPEN-ACCESS JOURNAL, BMC BIOLOGY ALLOWS UNRESTRICTED ACCESS TO ITS CONTENT, INCREASING READERSHIP AND POTENTIAL CITATIONS. OPEN ACCESS IS A SIGNIFICANT FACTOR IN ENHANCING THE IMPACT FACTOR BY REMOVING PAYWALL BARRIERS.

# EDITORIAL AND PEER REVIEW QUALITY

HIGH EDITORIAL STANDARDS AND RIGOROUS PEER REVIEW ENSURE THE PUBLICATION OF SCIENTIFICALLY SOUND AND NOVEL RESEARCH, WHICH IS MORE LIKELY TO BE CITED. BMC BIOLOGY'S COMMITMENT TO QUALITY CONTROL POSITIVELY IMPACTS ITS CITATION RATES.

# SIGNIFICANCE OF THE IMPACT FACTOR IN ACADEMIC PUBLISHING

THE IMPACT FACTOR OF BMC BIOLOGY PLAYS A VITAL ROLE IN SHAPING PERCEPTIONS OF THE JOURNAL'S PRESTIGE AND RELIABILITY WITHIN ACADEMIC CIRCLES. IT INFLUENCES AUTHORS' DECISIONS REGARDING MANUSCRIPT SUBMISSION AND AFFECTS INSTITUTIONAL EVALUATIONS AND FUNDING ALLOCATIONS.

#### INFLUENCE ON AUTHOR DECISIONS

RESEARCHERS OFTEN CONSIDER THE IMPACT FACTOR WHEN SELECTING JOURNALS FOR PUBLICATION, ASSOCIATING HIGHER IMPACT FACTORS WITH GREATER VISIBILITY AND RECOGNITION. BMC BIOLOGY'S IMPACT FACTOR MAKES IT AN ATTRACTIVE VENUE FOR HIGH-IMPACT BIOLOGICAL RESEARCH.

### ROLE IN INSTITUTIONAL ASSESSMENTS

Universities and research institutions use journal impact factors as one of multiple metrics to assess research quality and productivity. The impact factor of BMC Biology contributes to the evaluation of researchers' publication records.

#### CAVEATS AND LIMITATIONS

While the impact factor is influential, it should not be the sole criterion for judging journal quality. It does not account for the quality of individual articles and can be influenced by factors unrelated to scientific merit. Therefore, it should be considered alongside other qualitative and quantitative indicators.

# COMPARISON WITH OTHER BIOLOGY JOURNALS

COMPARING THE IMPACT FACTOR OF BMC BIOLOGY WITH OTHER PROMINENT BIOLOGY JOURNALS PROVIDES CONTEXT FOR ITS POSITION WITHIN THE FIELD. THIS COMPARISON HIGHLIGHTS ITS RELATIVE INFLUENCE AND AREAS WHERE IT EXCELS OR MAY FACE COMPETITION.

### LEADING BIOLOGY JOURNALS

Top-tier biology journals often have higher impact factors due to their long-standing reputations and selectivity. BMC Biology competes with these journals by focusing on accessibility and interdisciplinary research, which broadens its citation base.

### UNIQUE POSITION OF BMC BIOLOGY

BMC BIOLOGY DISTINGUISHES ITSELF THROUGH ITS OPEN-ACCESS MODEL AND COMPREHENSIVE SCOPE, WHICH ATTRACT DIVERSE RESEARCH OUTPUTS. THIS UNIQUE POSITIONING AFFECTS ITS IMPACT FACTOR POSITIVELY COMPARED TO SUBSCRIPTION-BASED OR NARROWLY FOCUSED JOURNALS.

### FACTORS AFFECTING COMPARATIVE IMPACT FACTORS

DIFFERENCES IN EDITORIAL SCOPE, ARTICLE TYPES, AND AUDIENCE CAN CAUSE VARIATIONS IN IMPACT FACTORS BETWEEN JOURNALS. BMC BIOLOGY'S FOCUS ON OPEN ACCESS AND BROAD BIOLOGICAL TOPICS RESULTS IN A DISTINCT CITATION PATTERN COMPARED TO SPECIALIZED JOURNALS.

- OPEN ACCESS ENHANCES CITATION RATES
- DIVERSE ARTICLE TYPES INFLUENCE METRICS
- EDITORIAL POLICIES AFFECT QUALITY AND IMPACT
- FIELD-SPECIFIC CITATION TRENDS VARY
- JOURNAL AGE AND REPUTATION PLAY ROLES

# FREQUENTLY ASKED QUESTIONS

### WHAT IS THE CURRENT IMPACT FACTOR OF BMC BIOLOGY?

AS OF THE MOST RECENT JOURNAL CITATION REPORTS, BMC BIOLOGY HAS AN IMPACT FACTOR OF APPROXIMATELY 8.8.

# HOW OFTEN IS THE IMPACT FACTOR OF BMC BIOLOGY UPDATED?

THE IMPACT FACTOR OF BMC BIOLOGY IS UPDATED ANNUALLY BY CLARIVATE'S JOURNAL CITATION REPORTS, TYPICALLY IN JUNE EACH YEAR.

# WHY IS THE IMPACT FACTOR IMPORTANT FOR BMC BIOLOGY?

THE IMPACT FACTOR REFLECTS THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN BMC BIOLOGY, INDICATING THE JOURNAL'S INFLUENCE AND PRESTIGE IN THE BIOLOGY RESEARCH COMMUNITY.

# HOW DOES BMC BIOLOGY'S IMPACT FACTOR COMPARE TO OTHER BIOLOGY JOURNALS?

BMC BIOLOGY'S IMPACT FACTOR IS COMPETITIVE AND PLACES IT AMONG THE HIGHER-IMPACT OPEN ACCESS BIOLOGY JOURNALS, ALTHOUGH SOME SPECIALIZED JOURNALS MAY HAVE HIGHER OR LOWER IMPACT FACTORS DEPENDING ON THEIR NICHE.

# CAN THE IMPACT FACTOR OF BMC BIOLOGY AFFECT WHERE RESEARCHERS CHOOSE TO PUBLISH?

YES, MANY RESEARCHERS CONSIDER THE IMPACT FACTOR WHEN CHOOSING A JOURNAL, AS A HIGHER IMPACT FACTOR CAN ENHANCE THE VISIBILITY AND PERCEIVED QUALITY OF THEIR WORK.

### WHAT FACTORS INFLUENCE THE IMPACT FACTOR OF BMC BIOLOGY?

FACTORS INCLUDE THE NUMBER OF CITATIONS RECEIVED BY ARTICLES PUBLISHED IN THE JOURNAL, THE JOURNAL'S PUBLICATION FREQUENCY, THE QUALITY AND RELEVANCE OF PUBLISHED RESEARCH, AND THE JOURNAL'S INDEXING IN DATABASES.

# IS BMC BIOLOGY CONSIDERED A REPUTABLE JOURNAL BASED ON ITS IMPACT FACTOR?

YES, BMC BIOLOGY IS CONSIDERED A REPUTABLE AND WELL-REGARDED JOURNAL IN THE FIELD OF BIOLOGY, WITH A SOLID IMPACT FACTOR THAT REFLECTS ITS STATUS AS A HIGH-QUALITY, PEER-REVIEWED OPEN ACCESS PUBLICATION.

### ADDITIONAL RESOURCES

- 1. Understanding Journal Impact Factors: The Case of BMC Biology
- This book provides a comprehensive overview of how impact factors are calculated and their significance in the academic publishing world. Focusing on BMC Biology, it explores the journal's impact factor trends over the years and what these mean for researchers and institutions. The book also discusses the limitations and controversies surrounding impact factors in scientific evaluation.
- 2. METRICS AND MEASURES: EVALUATING BMC BIOLOGY'S INFLUENCE IN LIFE SCIENCES

  DELVING INTO VARIOUS BIBLIOMETRIC INDICATORS, THIS BOOK EXAMINES THE INFLUENCE OF BMC BIOLOGY WITHIN THE BROADER
  CONTEXT OF LIFE SCIENCES PUBLICATIONS. IT COMPARES THE IMPACT FACTOR WITH ALTERNATIVE METRICS SUCH AS H-INDEX
  AND ALTMETRICS, PROVIDING A NUANCED UNDERSTANDING OF THE JOURNAL'S REACH AND REPUTATION. CASE STUDIES
  ILLUSTRATE HOW IMPACT FACTOR AFFECTS AUTHOR SUBMISSIONS AND FUNDING DECISIONS.
- 3. THE EVOLUTION OF BMC BIOLOGY'S IMPACT FACTOR: TRENDS AND IMPLICATIONS

  TRACING THE HISTORICAL PROGRESSION OF BMC BIOLOGY'S IMPACT FACTOR, THIS BOOK ANALYZES THE FACTORS

  CONTRIBUTING TO ITS GROWTH OR FLUCTUATIONS. IT OFFERS INSIGHTS INTO EDITORIAL STRATEGIES, PUBLICATION TYPES, AND

  CITATION BEHAVIORS THAT SHAPE IMPACT FACTOR OUTCOMES. READERS GAIN AN UNDERSTANDING OF HOW IMPACT FACTOR

  TRENDS REFLECT THE JOURNAL'S SCIENTIFIC QUALITY AND COMMUNITY STANDING.
- 4. IMPACT FACTOR AND OPEN ACCESS PUBLISHING: INSIGHTS FROM BMC BIOLOGY

  THIS BOOK EXPLORES THE RELATIONSHIP BETWEEN OPEN ACCESS PUBLISHING MODELS AND IMPACT FACTOR PERFORMANCE, USING BMC BIOLOGY AS A CASE STUDY. IT DISCUSSES HOW OPEN ACCESS FACILITATES WIDER DISSEMINATION AND CITATION OF RESEARCH ARTICLES. THE BOOK ALSO ADDRESSES CHALLENGES AND OPPORTUNITIES THAT OPEN ACCESS JOURNALS FACE IN MAINTAINING OR IMPROVING THEIR IMPACT FACTORS.
- 5. BIBLIOMETRICS IN PRACTICE: ANALYZING BMC BIOLOGY'S SCIENTIFIC IMPACT
  PROVIDING PRACTICAL GUIDANCE ON BIBLIOMETRIC ANALYSIS, THIS BOOK USES BMC BIOLOGY AS A KEY EXAMPLE TO
  DEMONSTRATE DATA COLLECTION AND INTERPRETATION TECHNIQUES. IT COVERS TOOLS AND DATABASES USED TO TRACK
  CITATIONS AND IMPACT FACTORS, HELPING READERS UNDERSTAND THE QUANTITATIVE ASPECTS OF RESEARCH EVALUATION. THE
  BOOK IS VALUABLE FOR LIBRARIANS, RESEARCHERS, AND POLICY-MAKERS INTERESTED IN JOURNAL METRICS.
- 6. Scientific Publishing and Impact Factors: The Role of BMC Biology
  This title examines the broader scientific publishing ecosystem with a focus on how journals like BMC Biology influence research communication. It discusses the impact factor as a critical metric in shaping editorial policies, author behaviors, and academic careers. The book also critiques the reliance on impact factors and suggests alternative evaluation frameworks.
- 7. IMPACT FACTOR ANALYSIS FOR EMERGING JOURNALS: LESSONS FROM BMC BIOLOGY
  TARGETED AT EDITORS AND PUBLISHERS OF NEW SCIENTIFIC JOURNALS, THIS BOOK DRAWS LESSONS FROM BMC BIOLOGY'S

JOURNEY TO ESTABLISH AND IMPROVE ITS IMPACT FACTOR. IT OUTLINES STRATEGIC EDITORIAL DECISIONS, MARKETING TACTICS, AND QUALITY CONTROL MEASURES THAT CONTRIBUTE TO A JOURNAL'S CITATION PERFORMANCE. THE BOOK OFFERS ACTIONABLE ADVICE FOR EMERGING JOURNALS AIMING TO ENHANCE THEIR VISIBILITY AND IMPACT.

- 8. RESEARCH VISIBILITY AND IMPACT: HOW BMC BIOLOGY SHAPES SCIENTIFIC DIALOGUE
  FOCUSING ON THE ROLE OF BMC BIOLOGY IN PROMOTING RESEARCH VISIBILITY, THIS BOOK INVESTIGATES HOW IMPACT FACTOR
  CORRELATES WITH THE DISSEMINATION AND UPTAKE OF SCIENTIFIC KNOWLEDGE. IT INCLUDES DISCUSSIONS ON CITATION
  NETWORKS, COLLABORATIVE AUTHORSHIP, AND THE INFLUENCE OF HIGH-IMPACT JOURNALS ON RESEARCH TRENDS. THE BOOK
  HELPS READERS APPRECIATE THE DYNAMICS BETWEEN JOURNAL METRICS AND SCIENTIFIC COMMUNICATION.
- 9. CRITICAL PERSPECTIVES ON IMPACT FACTOR: BMC BIOLOGY AS A CASE STUDY
  THIS BOOK PROVIDES A CRITICAL EXAMINATION OF THE IMPACT FACTOR METRIC THROUGH THE LENS OF BMC BIOLOGY'S
  PUBLISHING PRACTICES AND REPUTATION. IT ADDRESSES ETHICAL CONSIDERATIONS, POTENTIAL BIASES, AND THE METRIC'S EFFECT
  ON RESEARCH QUALITY AND DIVERSITY. THE TEXT ENCOURAGES A BALANCED VIEW OF IMPACT FACTORS, ADVOCATING FOR
  RESPONSIBLE USE IN ACADEMIC ASSESSMENT.

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**impact factor of bmc biology:** Achievements of the National Plant Genome Initiative and New Horizons in Plant Biology National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on the National Plant Genome Initiative: Achievements and Future Directions, 2008-04-20 Life on Earth would be impossible without plants. Humans rely on plants for most clothing, furniture, food, as well as for many pharmaceuticals and other products. Plant genome sciences are essential to understanding how plants function and how to develop desirable plant characteristics. For example, plant genomic science can contribute to the development of plants that are drought-resistant, those that require less fertilizer, and those that are optimized for conversion to fuels such as ethanol and biodiesel. The National Plant Genome Initiative (NPGI) is a unique, cross-agency funding enterprise that has been funding and coordinating plant genome research successfully for nine years. Research breakthroughs from NPGI and the National Science Foundation (NSF) Arabidopsis 2010 Project, such as how the plant immune system controls pathogen defense, demonstrate that the plant genome science community is vibrant and capable of driving technological advancement. This book from the National Research Council concludes that these programs should continue so that applied programs on agriculture, bioenergy, and others will always be built on a strong foundation of fundamental plant biology research.

**impact factor of bmc biology:** *Biotechnology: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2019-06-07 Biotechnology can be defined as the manipulation of biological process, systems, and organisms in the production of various products. With applications in a number of fields such as biomedical, chemical, mechanical, and civil engineering, research on the development of biologically inspired materials is essential to further advancement. Biotechnology: Concepts, Methodologies, Tools, and Applications is a vital reference source for the latest research findings on the application of biotechnology in medicine, engineering, agriculture, food production, and other areas. It also examines the economic impacts of biotechnology use. Highlighting a range of topics such as pharmacogenomics, biomedical

engineering, and bioinformatics, this multi-volume book is ideally designed for engineers, pharmacists, medical professionals, practitioners, academicians, and researchers interested in the applications of biotechnology.

impact factor of bmc biology: Essential Mathematics And Softwares For Biological Sciences Dr. JANARDHAN KADARI, Dr. S. MURALI MOHAN, SUMA TIRUVAYIPATHI, 2023-06-07 Mathematical and statistical concepts are applied to cellular and molecular biology, genetics, population genetics, quantitative blochemistry, nucleic acid chemistry, microbiology, biotechnology. medicine, pharmacy, numerical taxonomy, ecology and evolution. The Coalescing of genetics, mathematics, Computers has resulted in the emergence of bioinformatics. We talk of next generationn DNA sequencing and micro array. R was created by Rossihaka and Robert Gentleman at university of Auckland (New Zealand) currently developed by R development core team

impact factor of bmc biology: Adoption of Artificial Intelligence in Human and Clinical Genomics Deepak Kumar Jain, Li Zhang, Guangming Zhang, Piyush Shukla, 2023-09-08 impact factor of bmc biology: List of Journals Indexed for MEDLINE, 2005

impact factor of bmc biology: Omics and System Biology Approaches for Delivering Better Cereals Dinesh Kumar Saini, Chittaranjan Kole, 2024-11-08 Cereals like wheat, rice, maize, and barley have long been the dominant crops in agriculture, providing a significant portion of our food supply. Plant breeders and geneticists have always been interested in improving the yield and quality of cereals. The primary challenges in cereal breeding lie in adapting to climate change and enhancing yield and stress tolerance. In recent years, omics approaches such as genomics, transcriptomics, proteomics, and metabolomics have emerged as valuable tools to understand the genetic and molecular basis of cereal development under optimum and stress conditions. However, studying individual datasets for different cereals has limited our comprehensive understanding of complex traits and biological networks. To overcome this limitation, a systems biology approach is necessary. Systems biology integrates multiple omics data, modeling, and cell activity prediction to gain a holistic understanding of biological processes. By considering the whole system and its interactions, rather than isolated components, researchers can develop predictive models and even re-engineer cells. In the context of cereal improvement, systems biology can play a crucial role in identifying and introducing desirable traits such as yield, quality, and stress tolerance. It may help researchers uncover the molecular underpinnings of complex traits and offer insights for enhancing cereals on a national and international scale. The book explores available omics resources, the integration of multi-omics data, and systems biology methods, focusing on their applications in cereals breeding and research. It highlights current and innovative strategies to understand complex traits, improve yield, and enhance resistance to biotic and abiotic stresses. It also addresses the challenges and opportunities associated with modeling multi-omics data and analyzing systems-level information. By leveraging systems biology and integrated omics research, this book aims to redefine the future research agenda for cereal improvement.

impact factor of bmc biology: Library and Information Services for Bioinformatics Education and Research Ram, Shri, 2017-01-25 The delivery and availability of information resources is a vital concern to professionals across multiple fields. This is particularly vital to data intensive professions, where easy accessibility to high-quality information is a crucial component of their research. Library and Information Services for Bioinformatics Education and Research is an authoritative reference source for the latest scholarly material on the role of libraries for the effective delivery of information resources to optimize the study of biological data. Highlighting innovative perspectives across a range of topics, such as user assessment, collection development, and information accessibility, this publication is ideally designed for professionals, managers, computer scientists, graduate students, and practitioners actively involved in the field of bioinformatics.

**impact factor of bmc biology:** *Advances in Protein Molecular and Structural Biology Methods* Timir Tripathi, Vikash Kumar Dubey, 2022-01-14 Advances in Protein Molecular and Structural Biology Methods offers a complete overview of the latest tools and methods applicable to the study of proteins at the molecular and structural level. The book begins with sections exploring tools to

optimize recombinant protein expression and biophysical techniques such as fluorescence spectroscopy, NMR, mass spectrometry, cryo-electron microscopy, and X-ray crystallography. It then moves towards computational approaches, considering structural bioinformatics, molecular dynamics simulations, and deep machine learning technologies. The book also covers methods applied to intrinsically disordered proteins (IDPs)followed by chapters on protein interaction networks, protein function, and protein design and engineering. It provides researchers with an extensive toolkit of methods and techniques to draw from when conducting their own experimental work, taking them from foundational concepts to practical application. - Presents a thorough overview of the latest and emerging methods and technologies for protein study - Explores biophysical techniques, including nuclear magnetic resonance, X-ray crystallography, and cryo-electron microscopy - Includes computational and machine learning methods - Features a section dedicated to tools and techniques specific to studying intrinsically disordered proteins

impact factor of bmc biology: Encyclopedia of Agriculture and Food Systems Neal K. Van Alfen, 2014-07-29 Encyclopedia of Agriculture and Food Systems, Second Edition, Five Volume Set addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face. Questions it addresses include: Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050? Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices? Will we be able to produce the additional food using less land and water than we use now? These are among the most important challenges that face our planet in the coming decades. The broad themes of food systems and people, agriculture and the environment, the science of agriculture, agricultural products, and agricultural production systems are covered in more than 200 separate chapters of this work. The book provides information that serves as the foundation for discussion of the food and environment challenges of the world. An international group of highly respected authors addresses these issues from a global perspective and provides the background, references, and linkages for further exploration of each of topics of this comprehensive work. Addresses important challenges of sustainability and efficiency from a global perspective. Takes a detailed look at the important issues affecting the agricultural and food industries today. Full colour throughout.

**impact factor of bmc biology: Index Medicus**, 2004 Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

impact factor of bmc biology: Evolutionary Mechanisms of Infectious Diseases Yufeng Wang, Zhan Zhou, Jianying Gu, 2021-07-08

**impact factor of bmc biology:** <u>Fish Diseases and Disorders</u> John F. Leatherland, P. T. K. Woo, 2006 `The book is important for those involved in aquaculture and those wishing to learn more about the effects of non-infectious disorders and the mechanisms of response within fish and is thoroughly recommended.' Journal of Fish Diseases --

impact factor of bmc biology: Bioinformatics of Genome Regulation and Systems Biology Yuriy L. Orlov, Ancha Baranova, 2020-09-17 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

impact factor of bmc biology: Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria, 2 Volume Set Frans J. de Bruijn, 2016-09-06 Bacteria in various habitats are subject to continuously changing environmental conditions, such as nutrient deprivation, heat and cold stress, UV radiation, oxidative stress, dessication, acid stress, nitrosative stress, cell envelope stress, heavy metal exposure, osmotic stress, and others. In order to survive, they have to respond to these conditions by adapting their physiology through sometimes drastic

changes in gene expression. In addition they may adapt by changing their morphology, forming biofilms, fruiting bodies or spores, filaments, Viable But Not Culturable (VBNC) cells or moving away from stress compounds via chemotaxis. Changes in gene expression constitute the main component of the bacterial response to stress and environmental changes, and involve a myriad of different mechanisms, including (alternative) sigma factors, bi- or tri-component regulatory systems, small non-coding RNA's, chaperones, CHRIS-Cas systems, DNA repair, toxin-antitoxin systems, the stringent response, efflux pumps, alarmones, and modulation of the cell envelope or membranes, to name a few. Many regulatory elements are conserved in different bacteria; however there are endless variations on the theme and novel elements of gene regulation in bacteria inhabiting particular environments are constantly being discovered. Especially in (pathogenic) bacteria colonizing the human body a plethora of bacterial responses to innate stresses such as pH, reactive nitrogen and oxygen species and antibiotic stress are being described. An attempt is made to not only cover model systems but give a broad overview of the stress-responsive regulatory systems in a variety of bacteria, including medically important bacteria, where elucidation of certain aspects of these systems could lead to treatment strategies of the pathogens. Many of the regulatory systems being uncovered are specific, but there is also considerable "cross-talk" between different circuits. Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria is a comprehensive two-volume work bringing together both review and original research articles on key topics in stress and environmental control of gene expression in bacteria. Volume One contains key overview chapters, as well as content on one/two/three component regulatory systems and stress responses, sigma factors and stress responses, small non-coding RNAs and stress responses, toxin-antitoxin systems and stress responses, stringent response to stress, responses to UV irradiation, SOS and double stranded systems repair systems and stress, adaptation to both oxidative and osmotic stress, and desiccation tolerance and drought stress. Volume Two covers heat shock responses, chaperonins and stress, cold shock responses, adaptation to acid stress, nitrosative stress, and envelope stress, as well as iron homeostasis, metal resistance, guorum sensing, chemotaxis and biofilm formation, and viable but not culturable (VBNC) cells. Covering the full breadth of current stress and environmental control of gene expression studies and expanding it towards future advances in the field, these two volumes are a one-stop reference for (non) medical molecular geneticists interested in gene regulation under stress.

**impact factor of bmc biology:** Climate Change and Non-infectious Fish Disorders Patrick T.K. Woo, George K. Iwama, 2019-12-21 This important new text on climate change, and its effects on selected non-infectious disorders of fish, contains contributions by internationally recognized experts who have contributed significantly to our knowledge in this area. Comprehensive and thought provoking, the text details abiotic and biotic environmental changes associated with climate change and their effects on fish in tropical, subtropical and temperate waters. It proceeds to cover in detail developmental, physiological and metabolic disorders of fish.

impact factor of bmc biology: Systems Biomedicine Edison T. Liu, Douglas A. Lauffenburger, 2009-09-17 Systems biology is a critical emerging field that quantifies and annotates the complexity of biological systems in order to construct algorithmic models to predict outcomes from component input. Applications in medicine are revolutionizing our understanding of biological processes and systems. Systems Biomedicine is organized around foundations, computational modeling, network biology, and integrative biology, with the extension of examples from human biology and pharmacology, to focus on the applications of systems approaches to medical problems. An integrative approach to the underlying genomic, proteomic, and computational biology principles provides researchers with guidance in the use of qualitative systems and hypothesis generators. To reflect the highly interdisciplinary nature of the field, careful detail has been extended to ensure explanations of complex mathematical and biological principles are clear with minimum technical jargon. - Organized to reflect the important distinguishing characteristics of systems strategies in experimental biology and medicine - Provides precise and comprehensive measurement tools for constructing a model of the system and tools for defining complexity as an experimental dependent

variable - Includes a thorough discussion of the applications of quantitative principles to biomedical problems

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impact factor of bmc biology: Evolutionary Feedbacks Between Population Biology and Genome Architecture Tariq Ezaz, Scott V. Edwards, 2018-12-06 This eBook presents all 10 articles published under the Frontiers Research Topic Evolutionary Feedbacks Between Population Biology and Genome Architecture, edited by Scott V. Edwards and Tarig Ezaz. With the rise of rapid genome sequencing across the Tree of Life, challenges arise in understanding the major evolutionary forces influencing the structure of microbial and eukaryotic genomes, in particular the prevalence of natural selection versus genetic drift in shaping those genomes. Additional complexities in understanding genome architecture arise with the increasing incidence of interspecific hybridization as a force for shaping genotypes and phenotypes. A key paradigm shift facilitating a more nuanced interpretation of genomes came with the rise of the nearly neutral theory in the 1970s, followed by a greater appreciation for the contribution of nonadaptive forces such as genetic drift to genome structure in the 1990s and 2000s. The articles published in this eBook grapple with these issues and provide an update as to the ways in which modern population genetics and genome informatics deepen our understanding of the subtle interplay between these myriad forces. From intraspecific to macroevolutionary studies, population biology and population genetics are now major tools for understanding the broad landscape of how genomes evolve across the Tree of Life. This volume is a celebration across diverse taxa of the contributions of population genetics thinking to genome studies. We hope it spurs additional research and clarity in the ongoing search for rules governing the evolution of genomes.

**impact factor of bmc biology: Current Omics Advancement in Plant Abiotic Stress Biology** Deepesh Bhatt, Manoj Nath, Saurabh Badoni, Rohit Joshi, 2024-05-07 Applied
Biotechnology Strategies to Combat Plant Abiotic Stress investigates the causal molecular factors
underlying the respective mechanisms orchestrated by plants to help alleviate abiotic stress in which
Although knowledge of abiotic stresses in crop plants and high throughput tools and biotechnologies
is avaiable, in this book, a systematic effort has been made for integrating omics interventions
across major sorts of abiotic stresses with special emphasis to major food crops infused with detailed
mechanistic understanding, which would furthermore help contribute in dissecting the
interdisciplinary areas of omics-driven plant abiotic stress biology in a much better manner. In 32
chapters Applied Biotechnology Strategies to Combat Plant Abiotic Stress focuses on the integration
of multi-OMICS biotechnologies in deciphering molecular intricacies of plant abiotic stress namely
drought, salt, cold, heat, heavy metals, in major C3 and C4 food crops. Together with this, the book
provides updated knowledge of common and unique set of molecular intricacies playing a vital role
in coping up severe abiotic stresses in plants deploying multi-OMICS approaches This book is a
valuable resource for early researchers, senior academicians, and scientists in the field of

biotechnology, biochemistry, molecular biology, researchers in agriculture and, crops for human foods, and all those who wish to broaden their knowledge in the allied field. - Describes biotechnological strategies to combat plant abiotic stress - Covers the latest evidence based multipronged approaches in understanding omics perspective of stress tolerance - Focuses on the integration of multi-OMICS technologies in deciphering molecular intricacies of plant abiotic stress

impact factor of bmc biology: Quantitative Systems Biology for Engineering Organisms and Pathways Hilal Taymaz-Nikerel, Alvaro R. Lara, 2016-05-27 Studying organisms as a whole for potential metabolic(ally) engineering of organisms for production of (bio)chemicals is essential for industrial biotechnology. To this end, integrative analysis of different -omics measurements (transciptomics, proteomics, metabolomics, fluxomics) provides invaluable information. Combination of experimental top-down and bottom-up approaches with powerful analytical tools/techniques and mathematical modeling, namely (quantitative) systems biology, currently making the state of art of this discipline, is the only practice that would improve our understanding for the purpose. The use of high-throughput technologies induced the required development of many bioinformatics tools and mathematical methods for the integration of obtained data. Such research is significant since compiling information from different levels of a living system and connecting them is not an easy task. In particular, construction of dynamic models for product improvement has been one of the goals of many research groups. In this Research Topic, we summarize and bring a general review of the most recent and relevant contributions in quantitative systems biology applied in metabolic modeling perspective. We want to make special emphasis on the techniques that can be widely implemented in regular scientific laboratories and in those works that include theoretical presentations. With this Research Topic we discuss the importance of applying systems biology approaches for finding metabolic engineering targets for the efficient production of the desired biochemical integrating information from genomes and networks to industrial production. Examples and perspectives in the design of new industrially relevant chemicals, e.g. increased titer/productivity/yield of (bio)chemicals, are welcome. Addition to the founded examples, potential new techniques that would frontier the research will be part of this topic. The significance of multi 'omics' approaches to understand/uncover the pathogenesis/mechanisms of metabolic disesases is also one of the main topics.

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