

IMPACT FACTOR OF SCIENCE SIGNALING

IMPACT FACTOR OF SCIENCE SIGNALING IS A CRUCIAL METRIC IN THE SCIENTIFIC COMMUNITY THAT REFLECTS THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN THE JOURNAL SCIENCE SIGNALING. IT SERVES AS AN INDICATOR OF THE JOURNAL'S INFLUENCE AND PRESTIGE WITHIN THE FIELDS OF MOLECULAR BIOLOGY, CELL SIGNALING, AND RELATED BIOMEDICAL SCIENCES. UNDERSTANDING THE IMPACT FACTOR OF SCIENCE SIGNALING HELPS RESEARCHERS, INSTITUTIONS, AND LIBRARIANS EVALUATE THE JOURNAL'S SIGNIFICANCE IN DISSEMINATING HIGH-QUALITY SCIENTIFIC KNOWLEDGE. THIS ARTICLE DELVES INTO THE DEFINITION AND CALCULATION OF THE IMPACT FACTOR, EXPLORES THE HISTORICAL TRENDS OF SCIENCE SIGNALING'S IMPACT FACTOR, AND HIGHLIGHTS ITS RELEVANCE TO RESEARCHERS AND ACADEMIC INSTITUTIONS. ADDITIONALLY, IT DISCUSSES THE LIMITATIONS AND CRITICISMS ASSOCIATED WITH IMPACT FACTORS AND PRESENTS ALTERNATIVE METRICS USED TO ASSESS JOURNAL QUALITY. FINALLY, STRATEGIES FOR AUTHORS AIMING TO PUBLISH IN HIGH-IMPACT JOURNALS LIKE SCIENCE SIGNALING WILL BE EXAMINED.

- UNDERSTANDING THE IMPACT FACTOR OF SCIENCE SIGNALING
- HISTORICAL TRENDS AND CURRENT STATUS OF SCIENCE SIGNALING'S IMPACT FACTOR
- SIGNIFICANCE OF THE IMPACT FACTOR FOR RESEARCHERS AND INSTITUTIONS
- LIMITATIONS AND CRITICISMS OF IMPACT FACTORS
- ALTERNATIVE METRICS TO MEASURE JOURNAL INFLUENCE
- STRATEGIES TO PUBLISH IN HIGH-IMPACT JOURNALS LIKE SCIENCE SIGNALING

UNDERSTANDING THE IMPACT FACTOR OF SCIENCE SIGNALING

THE IMPACT FACTOR OF SCIENCE SIGNALING IS A BIBLIOMETRIC INDICATOR CALCULATED ANNUALLY BY CLARIVATE ANALYTICS THROUGH THE JOURNAL CITATION REPORTS (JCR). IT MEASURES THE FREQUENCY WITH WHICH THE "AVERAGE ARTICLE" IN A JOURNAL HAS BEEN CITED IN A PARTICULAR YEAR. SPECIFICALLY, THE IMPACT FACTOR IS COMPUTED BY DIVIDING THE NUMBER OF CITATIONS IN THE CURRENT YEAR TO ARTICLES PUBLISHED IN THE PREVIOUS TWO YEARS BY THE TOTAL NUMBER OF CITABLE ARTICLES PUBLISHED IN THOSE TWO YEARS. THIS METRIC PROVIDES A QUANTITATIVE ESTIMATION OF A JOURNAL'S INFLUENCE WITHIN ITS SCIENTIFIC DOMAIN.

CALCULATION METHODOLOGY

THE STANDARD FORMULA FOR THE IMPACT FACTOR IS:

1. IDENTIFY THE NUMBER OF CITATIONS IN THE CURRENT YEAR TO ARTICLES PUBLISHED IN THE JOURNAL DURING THE PREVIOUS TWO YEARS.
2. COUNT THE TOTAL NUMBER OF "CITABLE ITEMS" PUBLISHED IN THOSE TWO YEARS, WHICH TYPICALLY INCLUDE RESEARCH ARTICLES, REVIEWS, AND PROCEEDINGS PAPERS.
3. DIVIDE THE NUMBER OF CITATIONS BY THE NUMBER OF CITABLE ITEMS TO OBTAIN THE IMPACT FACTOR.

FOR EXAMPLE, IF SCIENCE SIGNALING RECEIVED 1,000 CITATIONS IN 2023 TO ARTICLES PUBLISHED IN 2021 AND 2022, AND PUBLISHED 200 CITABLE ARTICLES DURING THOSE YEARS, THE IMPACT FACTOR FOR 2023 WOULD BE $1,000 \div 200 = 5.0$.

SCOPE AND FOCUS OF SCIENCE SIGNALING

SCIENCE SIGNALING SPECIALIZES IN PUBLISHING RESEARCH RELATED TO CELLULAR SIGNALING PATHWAYS, MOLECULAR MECHANISMS, AND REGULATORY PROCESSES THAT GOVERN BIOLOGICAL FUNCTIONS. ITS FOCUS ON INTERDISCIPLINARY SIGNALING RESEARCH ATTRACTS CITATIONS FROM A WIDE RANGE OF BIOMEDICAL AND LIFE SCIENCES DISCIPLINES, CONTRIBUTING TO ITS IMPACT FACTOR. THE JOURNAL PUBLISHES ORIGINAL RESEARCH ARTICLES, REVIEWS, AND COMMENTARIES THAT SHAPE THE UNDERSTANDING OF SIGNAL TRANSDUCTION AND CELLULAR COMMUNICATION.

HISTORICAL TRENDS AND CURRENT STATUS OF SCIENCE SIGNALING'S IMPACT FACTOR

SCIENCE SIGNALING HAS MAINTAINED A CONSISTENT REPUTATION FOR HIGH-QUALITY PUBLICATIONS SINCE ITS INCEPTION. ITS IMPACT FACTOR HAS REFLECTED THIS STATUS BY REMAINING COMPETITIVE AMONG JOURNALS IN CELLULAR AND MOLECULAR BIOLOGY.

EVOLUTION OVER THE YEARS

THE IMPACT FACTOR OF SCIENCE SIGNALING HAS EXPERIENCED FLUCTUATIONS INFLUENCED BY PUBLICATION VOLUME, CITATION PATTERNS, AND THE EVOLVING LANDSCAPE OF SIGNALING RESEARCH. INITIAL YEARS SHOWED STEADY GROWTH AS THE JOURNAL ESTABLISHED ITSELF, FOLLOWED BY PERIODS OF STABILIZATION. RECENT YEARS HAVE SEEN AN INCREASE IN IMPACT FACTOR DRIVEN BY GROUNDBREAKING DISCOVERIES AND HIGH CITATION RATES OF REVIEW ARTICLES.

COMPARISON WITH PEER JOURNALS

WHEN BENCHMARKED AGAINST SIMILAR JOURNALS IN MOLECULAR BIOLOGY AND CELL SIGNALING, SCIENCE SIGNALING TYPICALLY RANKS WITHIN THE TOP TIER. THIS RANKING SUPPORTS ITS ROLE AS A LEADING PUBLICATION VENUE IN THE SIGNALING RESEARCH COMMUNITY, ATTRACTING INFLUENTIAL PAPERS THAT CONTRIBUTE TO ITS CITATION METRICS.

SIGNIFICANCE OF THE IMPACT FACTOR FOR RESEARCHERS AND INSTITUTIONS

THE IMPACT FACTOR OF SCIENCE SIGNALING HOLDS IMPORTANT IMPLICATIONS FOR VARIOUS STAKEHOLDERS IN THE SCIENTIFIC ECOSYSTEM.

FOR RESEARCHERS

PUBLISHING IN HIGH-IMPACT JOURNALS LIKE SCIENCE SIGNALING ENHANCES A RESEARCHER'S VISIBILITY AND CREDIBILITY. ARTICLES IN SUCH JOURNALS ARE MORE LIKELY TO BE CITED, WHICH CAN POSITIVELY INFLUENCE CAREER ADVANCEMENT, GRANT ACQUISITION, AND COLLABORATION OPPORTUNITIES. ADDITIONALLY, THE IMPACT FACTOR SERVES AS A PROXY FOR THE JOURNAL'S SELECTIVITY AND SCIENTIFIC RIGOR.

FOR ACADEMIC INSTITUTIONS AND LIBRARIES

UNIVERSITIES AND RESEARCH INSTITUTIONS USE THE IMPACT FACTOR TO ASSESS JOURNAL SUBSCRIPTIONS AND ALLOCATION OF FUNDING. HIGH IMPACT FACTOR JOURNALS ARE OFTEN PRIORITIZED FOR INSTITUTIONAL ACCESS AND CONSIDERED WHEN EVALUATING FACULTY RESEARCH OUTPUT AND ACADEMIC PERFORMANCE.

FOR FUNDING AGENCIES

FUNDING BODIES SOMETIMES CONSIDER THE IMPACT FACTOR OF JOURNALS WHERE APPLICANTS PUBLISH RESEARCH TO GAUGE THE QUALITY AND POTENTIAL IMPACT OF THE PROPOSED WORK. THIS METRIC CAN INFLUENCE FUNDING DECISIONS AND RESEARCH PRIORITIZATION.

LIMITATIONS AND CRITICISMS OF IMPACT FACTORS

DESPITE ITS WIDESPREAD USE, THE IMPACT FACTOR OF SCIENCE SIGNALING AND OTHER JOURNALS HAS NOTABLE LIMITATIONS THAT HAVE SPARKED DEBATE WITHIN THE SCIENTIFIC COMMUNITY.

LIMITATIONS OF CITATION-BASED METRICS

THE IMPACT FACTOR PRIMARILY REFLECTS CITATION QUANTITY, NOT QUALITY OR RELEVANCE. IT CAN BE SKEWED BY A FEW HIGHLY CITED PAPERS, EDITORIAL POLICIES, OR CITATION PRACTICES WITHIN SPECIFIC FIELDS. ADDITIONALLY, IT DOES NOT ACCOUNT FOR LONG-TERM IMPACT BEYOND THE TWO-YEAR CITATION WINDOW.

POTENTIAL FOR MISUSE

OVERRELIANCE ON THE IMPACT FACTOR FOR EVALUATING INDIVIDUAL RESEARCHERS OR ARTICLES CAN BE MISLEADING. IT MAY INCENTIVIZE PUBLICATION IN HIGH-IMPACT JOURNALS OVER THE INTRINSIC QUALITY OR REPRODUCIBILITY OF RESEARCH. THIS MISUSE CAN AFFECT HIRING, PROMOTION, AND FUNDING DECISIONS UNFAIRLY.

DISCIPLINARY VARIATIONS

DIFFERENT SCIENTIFIC FIELDS HAVE VARYING CITATION BEHAVIORS, MAKING IMPACT FACTOR COMPARISONS ACROSS DISCIPLINES UNRELIABLE. JOURNALS IN FAST-MOVING FIELDS TEND TO HAVE HIGHER IMPACT FACTORS THAN THOSE IN MORE SPECIALIZED OR EMERGING AREAS.

ALTERNATIVE METRICS TO MEASURE JOURNAL INFLUENCE

IN LIGHT OF THE CRITICISMS SURROUNDING THE IMPACT FACTOR, SEVERAL ALTERNATIVE METRICS HAVE BEEN DEVELOPED TO PROVIDE A MORE NUANCED VIEW OF JOURNAL INFLUENCE AND RESEARCH QUALITY.

EIGENFACTOR SCORE

THE EIGENFACTOR SCORE CONSIDERS THE ORIGIN OF CITATIONS, GIVING MORE WEIGHT TO CITATIONS FROM INFLUENTIAL JOURNALS. IT ASSESSES THE OVERALL IMPORTANCE OF A JOURNAL WITHIN THE SCIENTIFIC CITATION NETWORK OVER A FIVE-YEAR PERIOD.

ARTICLE INFLUENCE SCORE

THIS METRIC MEASURES THE AVERAGE INFLUENCE OF A JOURNAL'S ARTICLES OVER THE FIRST FIVE YEARS AFTER PUBLICATION, PROVIDING INSIGHT INTO ARTICLE-LEVEL IMPACT BEYOND IMMEDIATE CITATION COUNTS.

H-INDEX AND CITESCORE

THE H-INDEX AGGREGATES CITATION PERFORMANCE OF A JOURNAL'S PUBLISHED ARTICLES, WHILE CITESCORE FROM ELSEVIER CALCULATES AVERAGE CITATIONS PER DOCUMENT OVER A THREE-YEAR WINDOW. BOTH OFFER COMPLEMENTARY PERSPECTIVES TO THE IMPACT FACTOR.

ALTMETRICS

ALTMETRICS CAPTURE THE ATTENTION AN ARTICLE RECEIVES ON SOCIAL MEDIA, NEWS OUTLETS, AND ONLINE PLATFORMS, REFLECTING BROADER ENGAGEMENT OUTSIDE TRADITIONAL CITATION METRICS.

STRATEGIES TO PUBLISH IN HIGH-IMPACT JOURNALS LIKE SCIENCE SIGNALING

PUBLISHING IN JOURNALS WITH A HIGH IMPACT FACTOR, SUCH AS SCIENCE SIGNALING, REQUIRES STRATEGIC PLANNING AND ADHERENCE TO RIGOROUS SCIENTIFIC STANDARDS.

FOCUS ON NOVELTY AND SIGNIFICANCE

RESEARCH MANUSCRIPTS SHOULD PRESENT NOVEL FINDINGS THAT ADVANCE THE UNDERSTANDING OF CELLULAR SIGNALING OR MOLECULAR MECHANISMS. EMPHASIZING THE SIGNIFICANCE AND BROAD IMPLICATIONS OF THE WORK INCREASES THE LIKELIHOOD OF ACCEPTANCE.

ROBUST EXPERIMENTAL DESIGN AND METHODOLOGY

HIGH-IMPACT JOURNALS PRIORITIZE STUDIES WITH RIGOROUS EXPERIMENTAL APPROACHES, REPRODUCIBLE RESULTS, AND THOROUGH DATA ANALYSIS. CLEAR METHODOLOGY SECTIONS AND VALIDATION STRENGTHEN MANUSCRIPT CREDIBILITY.

ENGAGING AND CLEAR WRITING

EFFECTIVE COMMUNICATION OF COMPLEX SCIENTIFIC CONCEPTS IN A CONCISE AND ACCESSIBLE MANNER ENHANCES MANUSCRIPT READABILITY. WELL-STRUCTURED ABSTRACTS AND INTRODUCTIONS CAPTURE EDITORIAL AND REVIEWER INTEREST.

COMPLIANCE WITH JOURNAL SCOPE AND GUIDELINES

AUTHORS MUST CAREFULLY ALIGN THEIR SUBMISSIONS WITH THE AIMS AND SCOPE OF SCIENCE SIGNALING AND ADHERE STRICTLY TO FORMATTING AND ETHICAL GUIDELINES TO AVOID DESK REJECTION.

UTILIZING PRE-SUBMISSION INQUIRIES AND PEER FEEDBACK

ENGAGING WITH EDITORS THROUGH PRE-SUBMISSION INQUIRIES OR INCORPORATING FEEDBACK FROM COLLEAGUES AND PEER REVIEWERS CAN IMPROVE THE QUALITY AND FIT OF THE MANUSCRIPT FOR THE JOURNAL.

- ENSURE RESEARCH CONTRIBUTES NOVEL INSIGHTS INTO SIGNALING PATHWAYS.
- MAINTAIN HIGH STANDARDS OF DATA QUALITY AND REPRODUCIBILITY.
- PREPARE CLEAR AND COMPELLING MANUSCRIPTS TAILORED TO THE JOURNAL AUDIENCE.

- FOLLOW SUBMISSION PROTOCOLS AND ETHICAL STANDARDS METICULOUSLY.
- SEEK CRITICAL FEEDBACK PRIOR TO SUBMISSION TO STRENGTHEN THE PAPER.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE IMPACT FACTOR OF SCIENCE SIGNALING?

THE IMPACT FACTOR OF SCIENCE SIGNALING TYPICALLY RANGES AROUND 9 TO 10, REFLECTING ITS INFLUENCE IN THE FIELD OF CELL SIGNALING AND MOLECULAR BIOLOGY. FOR THE MOST CURRENT VALUE, ONE SHOULD REFER TO THE LATEST JOURNAL CITATION REPORTS.

HOW IS THE IMPACT FACTOR OF SCIENCE SIGNALING CALCULATED?

THE IMPACT FACTOR 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 ARTICLES PUBLISHED IN THOSE TWO YEARS.

WHY IS THE IMPACT FACTOR IMPORTANT FOR SCIENCE SIGNALING?

THE IMPACT FACTOR INDICATES THE JOURNAL'S INFLUENCE AND PRESTIGE IN THE SCIENTIFIC COMMUNITY, HELPING AUTHORS DECIDE WHERE TO SUBMIT THEIR RESEARCH AND READERS TO IDENTIFY SIGNIFICANT WORK IN SIGNALING PATHWAYS.

HAS THE IMPACT FACTOR OF SCIENCE SIGNALING INCREASED RECENTLY?

IN RECENT YEARS, SCIENCE SIGNALING HAS MAINTAINED A RELATIVELY STABLE IMPACT FACTOR WITH SLIGHT FLUCTUATIONS, REFLECTING CONSISTENT CITATION RATES IN THE FIELD OF SIGNALING RESEARCH.

HOW DOES SCIENCE SIGNALING'S IMPACT FACTOR COMPARE TO OTHER JOURNALS IN CELL BIOLOGY?

SCIENCE SIGNALING'S IMPACT FACTOR IS COMPETITIVE, OFTEN HIGHER THAN MANY SPECIALIZED JOURNALS BUT LOWER THAN BROAD-SCOPE JOURNALS LIKE CELL OR NATURE, HIGHLIGHTING ITS NICHE FOCUS ON SIGNALING.

CAN THE IMPACT FACTOR OF SCIENCE SIGNALING PREDICT THE QUALITY OF INDIVIDUAL ARTICLES?

WHILE THE IMPACT FACTOR REFLECTS OVERALL JOURNAL INFLUENCE, IT DOES NOT GUARANTEE THE QUALITY OF INDIVIDUAL ARTICLES, WHICH SHOULD BE ASSESSED ON THEIR OWN MERITS.

WHERE CAN I FIND THE LATEST IMPACT FACTOR OF SCIENCE SIGNALING?

THE LATEST IMPACT FACTOR CAN BE FOUND IN THE JOURNAL CITATION REPORTS RELEASED ANNUALLY BY CLARIVATE ANALYTICS OR ON THE JOURNAL'S OFFICIAL WEBSITE.

DOES THE IMPACT FACTOR AFFECT THE SUBMISSION PROCESS TO SCIENCE SIGNALING?

YES, A HIGHER IMPACT FACTOR OFTEN ATTRACTS MORE SUBMISSIONS, MAKING THE PEER-REVIEW PROCESS MORE COMPETITIVE AND SELECTIVE.

WHAT FACTORS INFLUENCE THE IMPACT FACTOR OF SCIENCE SIGNALING?

FACTORS INCLUDE THE NUMBER OF CITATIONS TO RECENT ARTICLES, THE VOLUME OF PUBLISHED PAPERS, THE JOURNAL'S VISIBILITY, AND THE RELEVANCE OF ITS CONTENT TO ONGOING RESEARCH TRENDS.

ARE THERE ALTERNATIVE METRICS TO EVALUATE SCIENCE SIGNALING BESIDES THE IMPACT FACTOR?

YES, ALTERNATIVE METRICS INCLUDE THE H-INDEX, CITESCORE, EIGENFACTOR, AND ALTMETRICS THAT CONSIDER SOCIAL MEDIA AND ONLINE ATTENTION, PROVIDING A BROADER VIEW OF THE JOURNAL'S IMPACT.

ADDITIONAL RESOURCES

1. *UNDERSTANDING IMPACT FACTORS IN SCIENTIFIC PUBLISHING*

THIS BOOK OFFERS A COMPREHENSIVE OVERVIEW OF THE CONCEPT OF IMPACT FACTORS, EXPLAINING HOW THEY ARE CALCULATED AND THEIR SIGNIFICANCE IN EVALUATING SCIENTIFIC JOURNALS. IT DISCUSSES THE HISTORICAL DEVELOPMENT AND CONTROVERSIES SURROUNDING IMPACT FACTORS. RESEARCHERS AND LIBRARIANS WILL FIND PRACTICAL ADVICE ON HOW TO USE IMPACT FACTORS RESPONSIBLY IN ASSESSING RESEARCH QUALITY.

2. *SCIENCE SIGNALING AND JOURNAL METRICS: MEASURING INFLUENCE IN BIOMEDICAL RESEARCH*

FOCUSING ON THE FIELD OF BIOMEDICAL SCIENCE, THIS BOOK EXAMINES HOW IMPACT FACTORS SHAPE THE VISIBILITY AND REPUTATION OF JOURNALS LIKE SCIENCE SIGNALING. IT EXPLORES THE RELATIONSHIP BETWEEN JOURNAL METRICS AND SCIENTIFIC COMMUNICATION, HIGHLIGHTING THE IMPLICATIONS FOR RESEARCHERS AIMING TO PUBLISH IMPACTFUL WORK. CASE STUDIES DEMONSTRATE THE EVOLVING ROLE OF SIGNALING PATHWAYS RESEARCH IN HIGH-IMPACT PUBLICATIONS.

3. *EVALUATING SCIENTIFIC IMPACT: FROM CITATION ANALYSIS TO ALTMETRICS*

THIS BOOK DELVES INTO VARIOUS METHODS OF MEASURING SCIENTIFIC IMPACT, INCLUDING TRADITIONAL IMPACT FACTORS AND NEWER ALTERNATIVES LIKE ALTMETRICS. IT CRITIQUES THE LIMITATIONS OF RELYING SOLELY ON IMPACT FACTORS AND SUGGESTS COMPLEMENTARY METRICS FOR A MORE NUANCED EVALUATION OF SCIENTIFIC SIGNALING STUDIES. THE TEXT IS USEFUL FOR ACADEMICS, PUBLISHERS, AND RESEARCH ADMINISTRATORS.

4. *THE ROLE OF IMPACT FACTOR IN CAREER ADVANCEMENT AND FUNDING DECISIONS*

EXPLORING THE PRACTICAL EFFECTS OF IMPACT FACTORS, THIS BOOK DISCUSSES HOW JOURNAL METRICS INFLUENCE HIRING, PROMOTIONS, AND GRANT AWARDS IN THE SCIENCES. IT PROVIDES INSIGHTS INTO THE PRESSURES FACED BY RESEARCHERS IN SIGNALING AND OTHER FIELDS TO PUBLISH IN HIGH-IMPACT JOURNALS. STRATEGIES FOR BALANCING QUALITY RESEARCH WITH METRIC-DRIVEN EXPECTATIONS ARE ALSO PRESENTED.

5. *IMPACT FACTOR AND SCIENTIFIC SIGNALING: TRENDS AND FUTURE DIRECTIONS*

THIS FORWARD-LOOKING BOOK ANALYZES CURRENT TRENDS IN IMPACT FACTOR DYNAMICS WITHIN THE SIGNALING RESEARCH COMMUNITY. IT CONSIDERS HOW EMERGING TECHNOLOGIES AND OPEN-ACCESS PUBLISHING MIGHT RESHAPE JOURNAL INFLUENCE METRICS. THE AUTHOR PROPOSES REFORMS TO ENHANCE FAIRNESS AND TRANSPARENCY IN SCIENTIFIC PUBLISHING.

6. *BIBLIOMETRICS AND THE SCIENCE OF SIGNALING PATHWAYS*

A SPECIALIZED TEXT FOCUSING ON BIBLIOMETRIC STUDIES RELATED TO SIGNALING PATHWAY RESEARCH, THIS BOOK PROVIDES DETAILED ANALYSES OF CITATION PATTERNS AND JOURNAL IMPACT FACTORS IN THIS NICHE. IT HELPS RESEARCHERS UNDERSTAND HOW THEIR WORK FITS INTO THE BROADER SCIENTIFIC DISCOURSE AND HOW IMPACT FACTORS CORRELATE WITH RESEARCH TRENDS.

7. *BEYOND IMPACT FACTOR: ALTERNATIVE METRICS FOR SCIENCE SIGNALING RESEARCH*

THIS BOOK ADVOCATES FOR BROADER ASSESSMENT CRITERIA BEYOND IMPACT FACTORS, HIGHLIGHTING TOOLS LIKE ARTICLE-LEVEL METRICS AND SOCIAL MEDIA ENGAGEMENT. IT DISCUSSES HOW THESE ALTERNATIVE METRICS CAN BETTER CAPTURE THE INFLUENCE OF SIGNALING RESEARCH IN BOTH ACADEMIC AND PUBLIC SPHERES. PRACTICAL GUIDANCE ON IMPLEMENTING THESE TOOLS IS INCLUDED.

8. *SCIENCE SIGNALING AND THE ETHICS OF IMPACT FACTOR MANIPULATION*

ADDRESSING ETHICAL CONSIDERATIONS, THIS BOOK UNCOVERS PRACTICES THAT ARTIFICIALLY INFLATE IMPACT FACTORS IN SCIENTIFIC PUBLISHING. IT EXAMINES THE CONSEQUENCES FOR THE INTEGRITY OF SIGNALING RESEARCH AND PROPOSES MEASURES

TO COMBAT UNETHICAL BEHAVIORS. THE DISCUSSION IS RELEVANT TO EDITORS, AUTHORS, AND POLICY MAKERS.

9. COMMUNICATING SCIENCE: THE IMPACT FACTOR AND ITS ROLE IN SIGNALING RESEARCH DISSEMINATION

THIS BOOK EXPLORES THE INTERSECTION OF SCIENTIFIC COMMUNICATION AND IMPACT METRICS, FOCUSING ON HOW IMPACT FACTORS AFFECT THE DISSEMINATION OF SIGNALING RESEARCH FINDINGS. IT OFFERS STRATEGIES FOR SCIENTISTS TO EFFECTIVELY COMMUNICATE THEIR WORK BEYOND TRADITIONAL JOURNALS, ENHANCING VISIBILITY AND IMPACT. READERS GAIN INSIGHT INTO THE EVOLVING LANDSCAPE OF SCIENCE COMMUNICATION.

Impact Factor Of Science Signaling

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impact factor of science signaling: Unreliable Csaba Szabo, 2025-03-11 Reproducibility is fundamental to the scientific method. After reading a paper describing research findings, a scientist should be able to repeat the experiment and obtain the same results. Yet an alarming number—perhaps as high as 90 percent—of published biomedical research papers face challenges in independent replication. Such issues range from honest mistakes to outright fraud. The scope of this crisis, however, underscores deeper systemic issues within the scientific community: its culture, incentives, and institutions. In *Unreliable*, the distinguished scientist Csaba Szabo examines the causes and consequences of the reproducibility crisis in biomedical research, showing why the factors that encourage misconduct stem from flaws in real-world science. There are many culprits, including commonplace research methods and dubious statistical techniques. Academic career incentives, hypercompetition for grant funding, and a bias toward publishing positive results have exacerbated the problem. Deliberate data manipulation and fabricated findings churned out by “paper mills” are disturbingly common. Academic institutions and publishers, for their part, have perpetuated a culture of impunity. Szabo explores how these failures have hindered scientific progress and impeded the development of new treatments, and he introduces readers to the “science sleuths” who tirelessly uncover misconduct. He proposes comprehensive reforms, from scientific training to the grant system through the publication process, to address the root causes of the crisis. Written in clear language and leavened with a keen sense of irony, *Unreliable* is an essential account of the reproducibility crisis that gives readers an inside look at how science is actually done.

impact factor of science signaling: *Issues in General Science and Scientific Theory and Method: 2013 Edition*, 2013-05-01 *Issues in General Science and Scientific Theory and Method: 2013 Edition* is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Mixed Methods Research. The editors have built *Issues in General Science and Scientific Theory and Method: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Mixed Methods Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in General Science and Scientific Theory and Method: 2013 Edition* has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

impact factor of science signaling: Cortisol - Between Physiology and Pathology Diana Loreta Păun, 2024-03-06 The book is an exploration of the biology and pathophysiology of cortisol, a crucial hormone for survival, from the perspective of a multidisciplinary team of international experts. From presenting the current state of knowledge in the field of hormone physiology to discussing aspects related to cortisol measurement methods, the book raises a series of challenges for both endocrinologists and physicians from other specialties. It addresses interesting topics such as the role of enzymes involved in adrenal steroidogenesis, the connection between cortisol and obesity, and the role of hormone therapy in multiple sclerosis.

impact factor of science signaling: Lysosomes and Lysosomal Diseases, 2015-02-04 This new volume of Methods in Cell Biology looks at methods for lysosomes and lysosomal diseases. Chapters focus upon practical experimental protocols to guide researchers through the analysis of multiple aspects of lysosome biology and function. In addition, it details protocols relevant to clinical monitoring of patients with lysosomal diseases. With cutting-edge material, this comprehensive collection is intended to guide researchers for years to come. - Covers sections on model systems and functional studies, imaging-based approaches and emerging studies - Chapters are written by experts in the field - Cutting-edge material

impact factor of science signaling: Signaling in the Phytomicrobiome Donald L. Smith, Valérie Gravel, Étienne Yergeau, 2017-08-10 A plant growing under field conditions is not a simple individual; it is a community. We now know that there is a community of microbes associated with all parts of the plant, and that the root associated community is particularly large. This microbial community, the phytomicrobiome, is complex, regulated and the result of almost half a billion years of evolution. Circumstances that benefit the plant generally benefit the phytomicrobiome, and vice versa. Members of the holobiont modulate each other's activities, in part, through molecular signals, acting as the hormones of the holobiont. The plant plus the phytomicrobiome constitute the holobiont, the resulting entity that is that community. The phytomicrobiome is complex, well developed and well-orchestrated, and there is considerable potential in managing this system. The use of "biologicals" will develop during the 21st century and play as large a role as agro-chemistry did in the 20th century. Biologicals can be deployed to enhance plant pathogen resistance, improve plant access to nutrients and improve stress tolerance. They can be used to enhance crop productivity, to meet the expanding demands for plant material as food, fibre and fuel. They can assist crop plants in dealing with the more frequent and more extreme episodes of stress that will occur as climate change conditions continue to develop. The path is clear and we have started down it; there is a considerable distance remaining.

impact factor of science signaling: Systems Biology and Livestock Science Marinus te Pas, Henri Woelders, André Bannink, 2011-09-23 Systems Biology is an interdisciplinary approach to the study of life made possible through the explosion of molecular data made available through the genome revolution and the simultaneous development of computational technologies that allow us to interpret these large data sets. Systems Biology has changed the way biological science views and studies life and has been implemented in research efforts across the biological sciences. Systems Biology and Livestock Science will be the first book to review the latest advances using this research methodology in efforts to improve the efficiency, health, and quality of livestock production. Systems Biology and Livestock Science opens with useful introductory chapters explaining key systems biology principles. The chapters then progress to look at specific advances in fields across livestock science. Coverage includes, but is not limited to, chapters on systems biology approaches to animal nutrition, reproduction, health and disease, and animal physiology. Written by leading researchers in the field, Systems Biology and Livestock Science, will be an invaluable resource to researchers, professionals, and advance students working in this rapidly developing discipline.

impact factor of science signaling: Non-coding RNAs at the Cross-Road of Cardiometabolic Diseases and Cancer Paul Holvoet, 2021-03-26 This book gives insight into the functional role of non-coding RNAs in central pathways contributing to the development of obesity, type 2 diabetes, non-alcoholic fatty liver disease, atherosclerosis, myocardial infarction, cardiomyopathy, and heart

failure. It also sheds light on the relationship of this cluster with cancer. Tumor cells, in contrast to cells in cardiometabolic tissues, can regulate this cluster of non-coding RNAs to escape from oxidative stress and anti-tumor immunity and maintain insulin sensitivity, facilitating cancer progression. The book presents a cluster of non-coding RNAs that may be prospectively analyzed in extensive cohort studies to determine their value in risk-predicting machine learning algorithms. In addition, it emphasizes the role of microvesicles in communication between tumor-adjacent tissue, inflammatory cells, and tumor cells, with a special focus on the role of miR-155. The book intends to promote interdisciplinary research. Due to the comprehensive background information provided in each chapter, it is suitable for researchers in academia and industry and for graduate students in biology, bioengineering, and medicine.

impact factor of science signaling: *Research Methods in Sports Coaching* Lee Nelson, Ryan Groom, Paul Potrac, 2014-03-26 *Research Methods in Sports Coaching* is a key resource for any student, researcher or practitioner wishing to undertake research into sports coaching. It takes the reader through each phase of the research process, from identifying valuable research questions, to data collection and analyses, to the presentation and dissemination of research findings. It is the only book to focus on the particular challenges and techniques of sports coaching research, with each chapter including examples, cases and scenarios from the real world of sports coaching. The book introduces and explores important philosophical, theoretical and practical considerations in conducting coaching research, including contextual discussions about why it's important to do sports coaching research, how to judge the quality of coaching research, and how sports coaching research might meet the needs of coaching practitioners. Written by a team of leading international scholars and researchers from the UK, US, Canada and Australia, and bridging the gap between theory and practice, this book is an essential course text for any research methods course taken as part of a degree programme in sports coaching or coach education.

impact factor of science signaling: *Advances in Immunology* Frederick W. Alt, 2021-06-25 *Advances in Immunology*, Volume 150, the latest release in a long-established and highly respected publication, presents current developments and comprehensive reviews in immunology. - Presents current developments and comprehensive reviews in immunology - Provides the latest in a longstanding and respected serial on the subject matter - Focuses on recent advances in the advancing area of the mechanisms involved in the evolution of HIV-1 Neutralizing Antibodies

impact factor of science signaling: *Nutritional Psychiatry* Ted Dinan, Timothy G. Dinan, 2023-08-31 The first book to provide a comprehensive overview of the relationship between nutrition and mental health for clinicians.

impact factor of science signaling: *Plant Hormones and Climate Change* Golam Jalal Ahammed, Jingquan Yu, 2023-01-01 This book provides new insights into the mechanisms of plant hormone-mediated growth regulation and stress tolerance covering the most recent biochemical, physiological, genetic, and molecular studies. It also highlights the potential implications of plant hormones in ensuring food security in the face of climate change. Each chapter covers particular abiotic stress (heat stress, cold, drought, flooding, soil acidity, ozone, heavy metals, elevated CO₂, acid rain, and photooxidative stress) and the versatile role of plant hormones in stress perception, signal transduction, and subsequent stress tolerance in the context of climate change. Some chapters also discuss hormonal crosstalk or interaction in plant stress adaptation and highlight convergence points of crosstalk between plant hormones and environmental signals such as light, which are considered recent breakthrough studies in plant hormone research. As exogenous application or genetic manipulation of hormones can alter crop yield under favorable and/or unfavorable environmental conditions, the utilization of plant hormones in modern agriculture is of great significance in the context of global climate change. Thus, it is important to further explore how hormone manipulation can secure a good harvest under challenging environmental conditions. This volume is dedicated to Sustainable Development Goals (SDGs) 2 and 13. The volume is suitable for plant science-related courses, such as plant stress physiology, plant growth regulators, and physiology and biochemistry of phytohormones for undergraduate, graduate, and postgraduate

students at colleges and universities. The book can be a useful reference for academicians and scientists involved in research related to plant hormones and stress tolerance.

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