

REDOX BIOLOGY IMPACT FACTOR 2022

REDOX BIOLOGY IMPACT FACTOR 2022: UNDERSTANDING ITS SIGNIFICANCE IN SCIENTIFIC RESEARCH

REDOX BIOLOGY IMPACT FACTOR 2022 IS A TERM THAT HAS GARNERED CONSIDERABLE ATTENTION AMONG RESEARCHERS AND ACADEMICS IN THE FIELDS OF BIOCHEMISTRY, MOLECULAR BIOLOGY, AND MEDICAL SCIENCES. AS THE STUDY OF REDOX PROCESSES BECOMES INCREASINGLY VITAL FOR UNDERSTANDING CELLULAR FUNCTIONS AND DISEASE MECHANISMS, THE JOURNAL REDOX BIOLOGY HAS EMERGED AS A KEY PLATFORM FOR DISSEMINATING GROUNDBREAKING RESEARCH. IN THIS ARTICLE, WE WILL EXPLORE WHAT THE REDOX BIOLOGY IMPACT FACTOR 2022 REVEALS ABOUT THE JOURNAL'S INFLUENCE, ITS ROLE IN ADVANCING THE FIELD, AND WHY IT MATTERS FOR SCIENTISTS AND INSTITUTIONS WORLDWIDE.

WHAT IS THE REDOX BIOLOGY IMPACT FACTOR 2022?

THE IMPACT FACTOR IS A METRIC USED TO EVALUATE THE AVERAGE NUMBER OF CITATIONS TO ARTICLES PUBLISHED IN A SCIENTIFIC JOURNAL. SPECIFICALLY, THE REDOX BIOLOGY IMPACT FACTOR 2022 REFLECTS THE FREQUENCY WITH WHICH RECENT ARTICLES IN REDOX BIOLOGY WERE CITED IN THAT YEAR. THIS NUMBER SERVES AS AN INDICATOR OF THE JOURNAL'S PRESTIGE, RELEVANCE, AND THE QUALITY OF THE RESEARCH IT PUBLISHES.

REDOX BIOLOGY, AN OPEN-ACCESS JOURNAL DEDICATED TO THE STUDY OF REDOX MECHANISMS AND OXIDATIVE STRESS, HAS STEADILY GAINED PROMINENCE SINCE ITS INCEPTION. THE 2022 IMPACT FACTOR HIGHLIGHTS HOW THE SCIENTIFIC COMMUNITY VALUES ITS CONTRIBUTIONS, PARTICULARLY IN AREAS LIKE REACTIVE OXYGEN SPECIES (ROS), ANTIOXIDANTS, MITOCHONDRIAL FUNCTION, AND SIGNAL TRANSDUCTION PATHWAYS.

HOW THE IMPACT FACTOR IS CALCULATED

TO UNDERSTAND THE SIGNIFICANCE OF THE REDOX BIOLOGY IMPACT FACTOR 2022, IT HELPS TO KNOW HOW THE FIGURE IS DERIVED:

- **NUMERATOR:** CITATIONS IN 2022 TO ARTICLES PUBLISHED IN REDOX BIOLOGY DURING 2020 AND 2021.
- **DENOMINATOR:** TOTAL NUMBER OF CITABLE ARTICLES PUBLISHED IN THE JOURNAL IN 2020 AND 2021.

THE RESULTING QUOTIENT IS THE IMPACT FACTOR. A HIGHER VALUE INDICATES THAT ARTICLES PUBLISHED IN THE JOURNAL ARE FREQUENTLY REFERENCED BY OTHER RESEARCHERS, UNDERSCORING THE JOURNAL'S INFLUENCE IN THE SCIENTIFIC COMMUNITY.

WHY THE REDOX BIOLOGY IMPACT FACTOR 2022 MATTERS

THE IMPACT FACTOR IS MORE THAN JUST A NUMBER—IT HAS REAL IMPLICATIONS FOR AUTHORS, READERS, AND INSTITUTIONS ALIKE. HERE'S WHY THE REDOX BIOLOGY IMPACT FACTOR 2022 IS SIGNIFICANT:

1. BENCHMARKING QUALITY AND RELEVANCE

AN ELEVATED IMPACT FACTOR GENERALLY SIGNALS THAT A JOURNAL PUBLISHES HIGH-QUALITY, IMPACTFUL RESEARCH. FOR REDOX BIOLOGY, THE 2022 IMPACT FACTOR SERVES AS A VALIDATION THAT ITS FOCUS ON OXIDATIVE STRESS, REDOX SIGNALING, AND RELATED BIOMEDICAL RESEARCH RESONATES WITH THE SCIENTIFIC COMMUNITY. RESEARCHERS SEEKING TO PUBLISH THEIR WORK OFTEN LOOK TO JOURNALS WITH SOLID IMPACT FACTORS TO ENSURE THEIR STUDIES REACH A WIDER,

INFLUENTIAL AUDIENCE.

2. INFLUENCING FUNDING AND CAREER DECISIONS

UNIVERSITIES AND FUNDING BODIES SOMETIMES CONSIDER A RESEARCHER'S PUBLICATION RECORD, INCLUDING THE IMPACT FACTOR OF JOURNALS WHERE THEY HAVE PUBLISHED, WHEN MAKING GRANT OR TENURE DECISIONS. THUS, PUBLISHING IN A JOURNAL WITH A STRONG REDOX BIOLOGY IMPACT FACTOR 2022 CAN ENHANCE A SCIENTIST'S PROFILE BY DEMONSTRATING THAT THEIR WORK CONTRIBUTES MEANINGFULLY TO AN ACTIVE AND IMPORTANT AREA OF STUDY.

3. REFLECTING TRENDS IN REDOX RESEARCH

TRACKING CHANGES IN THE REDOX BIOLOGY IMPACT FACTOR OVER TIME CAN REVEAL SHIFTS IN RESEARCH FOCUS OR EMERGING HOT TOPICS. A RISING IMPACT FACTOR MIGHT INDICATE INCREASED INTEREST IN AREAS LIKE MITOCHONDRIAL DYSFUNCTION IN NEURODEGENERATIVE DISEASES, OR NOVEL ANTIOXIDANT THERAPIES. KEEPING AN EYE ON THIS METRIC HELPS RESEARCHERS STAY ALIGNED WITH EVOLVING SCIENTIFIC PRIORITIES.

KEY THEMES DRIVING CITATIONS IN REDOX BIOLOGY

UNDERSTANDING WHY REDOX BIOLOGY ATTRACTS CITATIONS HELPS EXPLAIN ITS IMPACT FACTOR. SOME OF THE CRITICAL RESEARCH THEMES CONTRIBUTING TO ITS PROMINENCE INCLUDE:

OXIDATIVE STRESS AND CELLULAR DAMAGE

OXIDATIVE STRESS IS A FUNDAMENTAL CONCEPT IN REDOX BIOLOGY, LINKING THE IMBALANCE OF FREE RADICALS AND ANTIOXIDANTS TO CELLULAR INJURY. ARTICLES EXPLORING MECHANISMS OF OXIDATIVE DAMAGE IN DISEASES SUCH AS CANCER, CARDIOVASCULAR DISORDERS, AND DIABETES TEND TO GARNER WIDESPREAD INTEREST AND CITATIONS.

REDOX SIGNALING PATHWAYS

BEYOND DAMAGE, REDOX BIOLOGY DELVES INTO HOW REDOX REACTIONS SERVE AS SIGNALING MECHANISMS REGULATING CELL PROLIFERATION, APOPTOSIS, AND METABOLISM. RESEARCH ON REDOX-SENSITIVE TRANSCRIPTION FACTORS AND ENZYMES DRAWS ATTENTION FOR ITS IMPLICATIONS IN THERAPEUTICS.

MITOCHONDRIAL FUNCTION AND DYSFUNCTION

MITOCHONDRIA PLAY A CENTRAL ROLE IN ENERGY PRODUCTION AND REDOX HOMEOSTASIS. STUDIES FOCUSING ON MITOCHONDRIAL ROS PRODUCTION, DYNAMICS, AND THEIR ROLE IN AGING AND PATHOLOGY FEATURE PROMINENTLY IN THE JOURNAL AND CONTRIBUTE TO ITS CITATION METRICS.

ANTIOXIDANT STRATEGIES AND THERAPEUTICS

WITH GROWING INTEREST IN COMBATING OXIDATIVE STRESS-RELATED DISEASES, RESEARCH ON NATURAL AND SYNTHETIC ANTIOXIDANTS, THEIR MECHANISMS, AND CLINICAL APPLICATIONS IS HIGHLY CITED. THIS AREA BRIDGES BASIC SCIENCE WITH TRANSLATIONAL MEDICINE, BOOSTING THE JOURNAL'S IMPACT.

TIPS FOR RESEARCHERS TARGETING REDOX BIOLOGY FOR PUBLICATION

IF YOU'RE CONSIDERING SUBMITTING YOUR WORK TO REDOX BIOLOGY, UNDERSTANDING THE JOURNAL'S IMPACT FACTOR AND SCOPE CAN HELP YOU PREPARE A STRONG MANUSCRIPT THAT ALIGNS WITH ITS STANDARDS.

- **FOCUS ON NOVELTY:** JOURNALS WITH HIGH IMPACT FACTORS LOOK FOR GROUNDBREAKING OR SIGNIFICANTLY ADVANCING RESEARCH.
- **CLEAR LINK TO REDOX PROCESSES:** ENSURE YOUR STUDY CLEARLY RELATES TO REDOX BIOLOGY CONCEPTS SUCH AS OXIDATIVE STRESS, REDOX SIGNALING, OR MITOCHONDRIAL FUNCTION.
- **ROBUST EXPERIMENTAL DESIGN:** INCLUDE COMPREHENSIVE DATA, CONTROLS, AND REPRODUCIBILITY TO MEET RIGOROUS PEER REVIEW EXPECTATIONS.
- **ENGAGE WITH CURRENT LITERATURE:** POSITION YOUR WORK WITHIN THE CONTEXT OF RECENT STUDIES PUBLISHED IN REDOX BIOLOGY TO DEMONSTRATE RELEVANCE.
- **HIGHLIGHT POTENTIAL APPLICATIONS:** EMPHASIZE HOW YOUR FINDINGS MAY INFLUENCE DISEASE UNDERSTANDING, DIAGNOSTICS, OR THERAPEUTICS.

LOOKING AHEAD: THE FUTURE OF REDOX BIOLOGY PUBLISHING

AS SCIENTIFIC INQUIRY INTO REDOX MECHANISMS CONTINUES TO DEEPEN, THE ROLE OF JOURNALS LIKE REDOX BIOLOGY BECOMES EVEN MORE CRITICAL. THE IMPACT FACTOR IN 2022 IS A SNAPSHOT OF THE JOURNAL'S GROWING INFLUENCE, BUT FUTURE DEVELOPMENTS MAY FURTHER ELEVATE ITS STATUS. EMERGING TECHNOLOGIES SUCH AS ADVANCED IMAGING OF REDOX STATES, SINGLE-CELL ANALYSES, AND COMPUTATIONAL MODELING ARE LIKELY TO DRIVE INNOVATIVE RESEARCH THAT FINDS A HOME IN THIS PUBLICATION.

FURTHERMORE, OPEN ACCESS PUBLISHING MODELS, WHICH REDOX BIOLOGY ADOPTS, ENHANCE ACCESSIBILITY AND CITATION POTENTIAL, POTENTIALLY BOOSTING THE IMPACT FACTOR EVEN MORE. RESEARCHERS, CLINICIANS, AND POLICYMAKERS INCREASINGLY RELY ON ACCESSIBLE, CUTTING-EDGE RESEARCH TO INFORM DECISIONS, MAKING THE JOURNAL A VALUABLE RESOURCE.

IN ESSENCE, THE REDOX BIOLOGY IMPACT FACTOR 2022 TELLS A STORY OF A DYNAMIC, EVOLVING FIELD THAT CONTINUES TO ATTRACT HIGH-IMPACT RESEARCH. WHETHER YOU ARE A SCIENTIST, A STUDENT, OR SIMPLY CURIOUS ABOUT HOW OXIDATIVE PROCESSES INFLUENCE HEALTH AND DISEASE, KEEPING ABREAST OF THIS JOURNAL'S STANDING OFFERS INSIGHT INTO WHERE REDOX BIOLOGY IS HEADED NEXT.

FREQUENTLY ASKED QUESTIONS

WHAT WAS THE IMPACT FACTOR OF THE JOURNAL REDOX BIOLOGY IN 2022?

THE IMPACT FACTOR OF REDOX BIOLOGY IN 2022 WAS APPROXIMATELY 11.799.

HOW DOES THE 2022 IMPACT FACTOR OF REDOX BIOLOGY COMPARE TO PREVIOUS YEARS?

THE 2022 IMPACT FACTOR OF REDOX BIOLOGY SHOWED A SLIGHT INCREASE COMPARED TO PREVIOUS YEARS, INDICATING GROWING RECOGNITION IN THE FIELD.

WHY IS THE IMPACT FACTOR IMPORTANT FOR REDOX BIOLOGY?

THE IMPACT FACTOR IS IMPORTANT AS IT REFLECTS THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN REDOX BIOLOGY, SERVING AS A METRIC OF THE JOURNAL'S INFLUENCE AND PRESTIGE.

WHERE CAN I FIND THE OFFICIAL 2022 IMPACT FACTOR FOR REDOX BIOLOGY?

THE OFFICIAL 2022 IMPACT FACTOR FOR REDOX BIOLOGY CAN BE FOUND ON THE JOURNAL CITATION REPORTS (JCR) BY CLARIVATE ANALYTICS OR ON THE JOURNAL'S OFFICIAL WEBSITE.

DID REDOX BIOLOGY MAINTAIN A HIGH IMPACT FACTOR IN 2022 WITHIN ITS FIELD?

YES, REDOX BIOLOGY MAINTAINED A HIGH IMPACT FACTOR IN 2022, RANKING IT AMONG THE TOP JOURNALS IN THE FIELDS OF BIOCHEMISTRY AND REDOX RESEARCH.

WHAT FACTORS CONTRIBUTED TO REDOX BIOLOGY'S IMPACT FACTOR IN 2022?

FACTORS INCLUDE THE PUBLICATION OF HIGH-QUALITY, IMPACTFUL RESEARCH ARTICLES, INCREASED CITATIONS, AND THE GROWING INTEREST IN OXIDATIVE STRESS AND REDOX SIGNALING RESEARCH.

HOW CAN AUTHORS BENEFIT FROM PUBLISHING IN REDOX BIOLOGY GIVEN ITS 2022 IMPACT FACTOR?

AUTHORS BENEFIT FROM ENHANCED VISIBILITY AND CREDIBILITY, AS THE JOURNAL'S STRONG IMPACT FACTOR INDICATES WIDE READERSHIP AND CITATION POTENTIAL.

IS REDOX BIOLOGY'S 2022 IMPACT FACTOR INDICATIVE OF ITS PEER REVIEW QUALITY?

A HIGH IMPACT FACTOR GENERALLY SUGGESTS RIGOROUS PEER REVIEW AND HIGH-QUALITY PUBLICATIONS, WHICH IS TRUE FOR REDOX BIOLOGY IN 2022.

HOW DOES REDOX BIOLOGY'S 2022 IMPACT FACTOR INFLUENCE FUNDING AND ACADEMIC RECOGNITION?

A STRONG IMPACT FACTOR LIKE REDOX BIOLOGY'S 2022 RATING CAN POSITIVELY INFLUENCE FUNDING DECISIONS AND ACADEMIC RECOGNITION FOR RESEARCHERS PUBLISHING IN THE JOURNAL.

ADDITIONAL RESOURCES

REDOX BIOLOGY IMPACT FACTOR 2022: A CRITICAL REVIEW OF JOURNAL METRICS AND SCIENTIFIC INFLUENCE

REDOX BIOLOGY IMPACT FACTOR 2022 IS A KEY METRIC FREQUENTLY REFERENCED BY RESEARCHERS, ACADEMICIANS, AND INSTITUTIONAL EVALUATORS TO GAUGE THE SCIENTIFIC INFLUENCE AND PRESTIGE OF THE JOURNAL REDOX BIOLOGY. AS THE FIELD OF REDOX BIOLOGY CONTINUES TO EXPAND—HIGHLIGHTING ESSENTIAL MECHANISMS OF OXIDATIVE STRESS, CELLULAR SIGNALING, AND REDOX HOMEOSTASIS—THE JOURNAL'S IMPACT FACTOR BECOMES A PIVOTAL INDICATOR FOR AUTHORS CHOOSING PUBLICATION VENUES AND FOR READERS SEEKING AUTHORITATIVE SOURCES. THIS ARTICLE OFFERS A COMPREHENSIVE EXAMINATION OF THE REDOX BIOLOGY IMPACT FACTOR FOR 2022, CONTEXTUALIZES ITS SIGNIFICANCE WITHIN THE BROADER SCIENTIFIC PUBLISHING LANDSCAPE, AND DISCUSSES THE FACTORS INFLUENCING ITS TRAJECTORY.

UNDERSTANDING THE REDOX BIOLOGY IMPACT FACTOR 2022

THE IMPACT FACTOR (IF) IS A QUANTITATIVE MEASURE REFLECTING THE AVERAGE NUMBER OF CITATIONS TO ARTICLES PUBLISHED IN A JOURNAL OVER A SPECIFIC PERIOD, TYPICALLY TWO YEARS. ACCORDING TO THE JOURNAL CITATION REPORTS (JCR) RELEASED ANNUALLY BY CLARIVATE ANALYTICS, THE REDOX BIOLOGY IMPACT FACTOR 2022 CAPTURES CITATIONS ACCRUED IN 2022 TO ARTICLES PUBLISHED IN 2020 AND 2021. THIS METRIC SERVES AS A PROXY FOR THE JOURNAL'S RELEVANCE AND SCIENTIFIC CONTRIBUTION.

REDOX BIOLOGY, LAUNCHED IN 2013, HAS QUICKLY ESTABLISHED ITSELF AS A LEADING JOURNAL IN THE INTERDISCIPLINARY DOMAIN OF REDOX PROCESSES LINKED TO PHYSIOLOGY AND PATHOLOGY. THE 2022 IMPACT FACTOR REFLECTS THE JOURNAL'S CONTINUED GROWTH IN BOTH SCOPE AND CITATION INFLUENCE AMID EVOLVING RESEARCH PRIORITIES RELATED TO OXIDATIVE STRESS, MITOCHONDRIAL FUNCTION, AND REACTIVE OXYGEN SPECIES (ROS) SIGNALING.

QUANTIFYING THE 2022 IMPACT FACTOR

IN 2022, REDOX BIOLOGY ACHIEVED AN IMPACT FACTOR OF APPROXIMATELY 11.799, MARKING A SUSTAINED UPWARD TREND COMPARED TO PREVIOUS YEARS. FOR PERSPECTIVE:

- 2020 IMPACT FACTOR: 11.799
- 2021 IMPACT FACTOR: 11.799
- 2022 IMPACT FACTOR: 11.799 (ESTIMATED OR CONFIRMED BY LATEST JCR RELEASE)

(NOTE: THE EXACT 2022 FIGURE MAY VARY SLIGHTLY UPON OFFICIAL RELEASE, BUT CURRENT ESTIMATES POSITION IT NEAR THIS BENCHMARK.)

THIS FIGURE SITUATES REDOX BIOLOGY AMONG THE TOP-TIER JOURNALS IN THE BIOCHEMISTRY AND MOLECULAR BIOLOGY CATEGORIES, PARTICULARLY WITHIN SPECIALIZED SUBSETS FOCUSING ON OXIDATIVE STRESS AND CELLULAR REDOX MECHANISMS.

FACTORS DRIVING REDOX BIOLOGY'S CITATION PERFORMANCE

SEVERAL KEY ELEMENTS CONTRIBUTE TO THE ROBUST IMPACT FACTOR OF REDOX BIOLOGY IN 2022:

1. EXPANDING RESEARCH INTEREST IN REDOX MECHANISMS

THE GROWING RECOGNITION OF REDOX BIOLOGY'S ROLE IN DIVERSE DISEASE STATES—RANGING FROM NEURODEGENERATION AND CANCER TO CARDIOVASCULAR DISORDERS—HAS INTENSIFIED RESEARCH OUTPUT IN THIS AREA. AS A RESULT, ARTICLES PUBLISHED IN REDOX BIOLOGY OFTEN BECOME FOUNDATIONAL CITATIONS FOR SUBSEQUENT STUDIES EXPLORING REDOX SIGNALING PATHWAYS, ANTIOXIDANT DEFENSES, AND REDOX-BASED THERAPEUTICS.

2. HIGH-QUALITY, INTERDISCIPLINARY CONTENT

REDOX BIOLOGY EMPHASIZES RIGOROUS PEER REVIEW AND A COMMITMENT TO PUBLISHING CUTTING-EDGE RESEARCH, INCLUDING ORIGINAL STUDIES, REVIEWS, AND METHODOLOGICAL ADVANCES. ITS INTERDISCIPLINARY APPROACH ATTRACTS A BROAD READERSHIP SPANNING MOLECULAR BIOLOGISTS, CHEMISTS, PHARMACOLOGISTS, AND CLINICIANS, THEREBY INCREASING CROSS-DISCIPLINARY CITATIONS.

3. TIMELY PUBLICATION AND OPEN ACCESS MODEL

THE JOURNAL’S OPEN ACCESS POLICY ENHANCES ARTICLE VISIBILITY AND ACCESSIBILITY, FACILITATING WIDER DISSEMINATION AND CITATION POTENTIAL. RAPID PUBLICATION PIPELINES ALSO ENSURE THAT EMERGING RESEARCH REACHES THE COMMUNITY PROMPTLY, AN IMPORTANT FACTOR IN FAST-MOVING FIELDS.

COMPARATIVE ANALYSIS WITH PEER JOURNALS

TO BETTER APPRECIATE THE SIGNIFICANCE OF THE REDOX BIOLOGY IMPACT FACTOR 2022, IT IS INSTRUCTIVE TO COMPARE IT WITH RELATED JOURNALS:

Journal	2022 Impact Factor	Scope
Free Radical Biology and Medicine	10.5	Oxidative stress, free radicals, and antioxidants
Antioxidants & Redox Signaling	9.4	Redox signaling and oxidative stress in biology and medicine
Redox Biology	11.799	Mechanistic redox biology and translational studies

THIS COMPARISON ILLUSTRATES REDOX BIOLOGY’S COMPETITIVE POSITION, OFTEN OUTPERFORMING ESTABLISHED JOURNALS IN THE NICHE, WHICH REINFORCES ITS APPEAL AS A PUBLICATION VENUE.

STRENGTHS AND LIMITATIONS OF IMPACT FACTOR AS A METRIC

WHILE THE IMPACT FACTOR REMAINS A WIDELY USED BENCHMARK, IT IS NOT WITHOUT CRITICISM:

- **STRENGTHS:** PROVIDES A STANDARDIZED MEASURE FOR COMPARING JOURNALS; REFLECTS CITATION TRENDS RELEVANT TO SCIENTIFIC IMPACT; INFLUENCES FUNDING AND ACADEMIC EVALUATIONS.
- **LIMITATIONS:** CAN BE SKEWED BY HIGHLY CITED ARTICLES; DOES NOT ACCOUNT FOR ARTICLE QUALITY OR SOCIETAL IMPACT; LIMITED TO A TWO-YEAR CITATION WINDOW; SUSCEPTIBLE TO MANIPULATION.

THEREFORE, RESEARCHERS AND INSTITUTIONS ARE INCREASINGLY ENCOURAGED TO CONSIDER COMPLEMENTARY METRICS—SUCH AS ARTICLE-LEVEL CITATIONS, H-INDEX, AND ALTMETRICS—ALONGSIDE THE 2022 REDOX BIOLOGY IMPACT FACTOR FOR HOLISTIC ASSESSMENT.

IMPLICATIONS FOR AUTHORS AND READERS

FOR AUTHORS AIMING TO PUBLISH IN REDOX BIOLOGY, THE 2022 IMPACT FACTOR SIGNALS A PRESTIGIOUS PLATFORM THAT OFFERS HIGH VISIBILITY AND INFLUENCE WITHIN THE REDOX RESEARCH COMMUNITY. MANUSCRIPTS ACCEPTED HERE ARE LIKELY TO RECEIVE ATTENTION AND CITATIONS, WHICH CAN ENHANCE ACADEMIC CAREERS AND FUNDING PROSPECTS.

READERS BENEFIT FROM THE JOURNAL’S CURATED SELECTION OF IMPACTFUL STUDIES THAT DRIVE FORWARD UNDERSTANDING OF OXIDATIVE MECHANISMS AND THEIR BIOMEDICAL APPLICATIONS. THE SUSTAINED HIGH IMPACT FACTOR ALSO REASSURES READERS

STRATEGIES FOR MAXIMIZING RESEARCH IMPACT IN REDOX BIOLOGY

RESEARCHERS CAN LEVERAGE THE JOURNAL'S STRENGTHS TO MAXIMIZE THEIR WORK'S REACH:

1. FOCUS ON NOVEL INSIGHTS INTO REDOX REGULATION AND DISEASE MECHANISMS.
2. INCORPORATE MULTIDISCIPLINARY APPROACHES TO BROADEN AUDIENCE APPEAL.
3. ENGAGE WITH THE OPEN ACCESS MODEL TO ENHANCE ACCESSIBILITY.
4. PROMOTE PUBLISHED WORK THROUGH ACADEMIC NETWORKS AND SOCIAL MEDIA.

SUCH STRATEGIES ALIGN WITH TRENDS REFLECTED IN THE REDOX BIOLOGY IMPACT FACTOR 2022 AND CONTRIBUTE TO SUSTAINED CITATION GROWTH.

LOOKING AHEAD: TRENDS INFLUENCING FUTURE IMPACT FACTORS

THE FIELD OF REDOX BIOLOGY IS DYNAMIC, WITH EMERGING AREAS SUCH AS REDOX METABOLOMICS, REDOX PROTEOMICS, AND THE ROLE OF OXIDATIVE STRESS IN AGING AND IMMUNE REGULATION ATTRACTING ATTENTION. AS THESE THEMES MATURE, REDOX BIOLOGY IS WELL-POSITIONED TO CAPTURE AND DISSEMINATE PIONEERING RESEARCH.

MOREOVER, THE INCREASING INTEGRATION OF COMPUTATIONAL BIOLOGY AND SYSTEMS REDOX APPROACHES MAY FURTHER ELEVATE THE JOURNAL'S CITATION METRICS. HOWEVER, EVOLVING PUBLICATION ETHICS, OPEN SCIENCE MANDATES, AND ALTERNATIVE METRICS COULD RESHAPE HOW IMPACT IS MEASURED BEYOND TRADITIONAL IMPACT FACTORS.

IN THIS CONTEXT, THE REDOX BIOLOGY IMPACT FACTOR 2022 NOT ONLY REFLECTS CURRENT SCIENTIFIC INFLUENCE BUT ALSO SERVES AS A BENCHMARK AGAINST WHICH THE JOURNAL'S FUTURE GROWTH AND ADAPTATION WILL BE ASSESSED.

[Redox Biology Impact Factor 2022](#)

redox biology impact factor 2022: New Developments in Redox Biology Asim K. Duttaroy, Atala Bihari Jena, 2025-09-01 *New Developments in Redox Biology: Fundamental Roles in Health and Disease* offers a comprehensive exploration of the influence of the redox system and the complex relationships between oxidative stress, biological development, health and disease. Divided into three sections, it explores the role of the redox system across developmental biology, non-communicable diseases, and infectious diseases. The first section includes chapters exploring oxygen availability in embryonic development, the influence of stress factors and intra-cellular signalling during embryogenesis, and how stem cells maintain homeostasis under oxidative stress. Section two considers topics such as the origin of cancer stem cells related to hypoxia, redox-related biomarkers in tumorigenesis and metabolic disorders, and the role of oxidation and reduction systems in autoimmune disorders and neurodegeneration. The final section focuses on redox regulation in infectious illness and includes chapters on redox biomarkers in host-pathogen interaction, the role of redox control in zoonotic diseases, and the significance of hypoxia on the ability of microbial pathogens to invade the gut. Antiviral drugs and the use of redox regulation in

their mechanism of action is also explored. **New Developments in Redox Biology: Fundamental Roles in Health and Disease** offers a multidisciplinary approach to the topic, providing valuable insights to those seeking to expand their expertise in redox biology and its implications for human health and disease. In particular, researchers and advanced students working across molecular biology, cell biology, biochemistry, developmental biology and related fields will find this book useful. - Explores the fundamental role of redox biology in developmental processes and cellular homeostasis - Investigates the impact of oxidative stress on non-communicable diseases, including cancer, metabolic, and autoimmune disorders - Examines redox regulation in infectious diseases and host-pathogen interactions - Provides detailed insights into redox-related biomarkers and their diagnostic and therapeutic potential - Equips readers with cutting-edge knowledge on redox biology through multi-omics approaches

redox biology impact factor 2022: *Selenium in ruminant nutrition and health* Peter Surai, 2024-05-21 Selenium (Se) is an essential dietary trace element participating in the regulation of various physiological functions in humans and farm animals through its incorporation into a range of selenoproteins. Low Se content in main feed ingredients is a common problem worldwide and dietary Se supplementation is a current practice in ruminant nutrition. Recent research clearly proved that sodium selenite, used for the last 50 years as a feed supplement, is not an optimal form of Se. However, use of organic selenium in dairy and beef diets can help meet Se requirement and maintain health/high immunocompetence, productive and reproductive performance. The goal of this book is to provide up-to-date information about the roles of Se in ruminant nutrition and health. A special emphasis is given to the role of selenium as an essential part of the integrated antioxidant system. The concept of using organic Se in ruminant nutrition is described in detail with emphasis on selenomethionine as a storage form of Se in the body. Also, specific Se deficiency-related disorders in ruminants are described and the importance of Se in growth, development, immunity and reproduction is demonstrated. Molecular mechanisms of protective effects of Se under stressful conditions of commercial milk and meat production are characterized. This book will be of practical importance to dairy and beef producers, to nutritionists and vets as well as for animal scientists, students of agricultural colleges and universities. It will also be of interest for researchers in areas related to environmental sciences, food sciences, physiology, etc.

redox biology impact factor 2022: *Aging, Peripheral Inflammation, and Neurodegeneration* Caroline Haikal, Robert Weissert, 2024-12-26 Aging is a major risk factor for several neurodegenerative diseases, including Parkinson's and Alzheimer's disease. The immune response is often dysregulated in aging, leading to a predisposition towards a state of chronic inflammation. The precise processes which support this inflammatory state are still a subject of debate, however, cell- and tissue-specific transcriptional changes in several immune-related genes have been identified as potential drivers. In addition to genetic changes, losses in the bacterial diversity within the microbiome are also observed during aging. However, it is unclear whether this may be a cause or consequence of inflammation. Host-microbiome interactions are highly complex and are known to modulate the immune response in several ways. For instance, while bacteria and some bacterial byproducts such as short chain fatty acids can induce differentiation of regulatory T cells and stimulate secretion of anti-inflammatory cytokines, other byproducts can activate pathogen recognition receptors to induce inflammation. Bacteria can also regulate the transcription of human genes that regulate immune homeostasis and pathogen response. In turn, microRNAs produced by the gut epithelium can regulate transcription in bacteria.

redox biology impact factor 2022: *Model organisms in aging research: Caenorhabditis elegans* Maria Olivia Casanueva, Kim A. Caldwell, Cindy Voisine, Carmen Nussbaum-Krammer, 2023-01-11

redox biology impact factor 2022: *Glycolysis* Rita Ferreira, Pedro Fontes Oliveira, Rita Nogueira-Ferreira, 2023-10-13 Glycolysis: Tissue-Specific Metabolic Regulation in Physio-Pathological Conditions provides an integrated overview of glycolysis, spanning basic biochemistry, patho-physiology and therapeutic applications. The book also instructs in methods available to study

the involvement of the glycolytic events in healthy biology and disease pathology. It begins with an overview of fundamental glycobiology followed by chapters dedicated to glycolysis physiology in organs and systems, pathologic conditions related to glycolytic alterations, glycolysis as a therapeutic target and in drug discovery efforts, and methodological approaches to advance new glycolysis research. Disease areas considered range from cancer to heart failure, diabetes, inborn glycolytic pathway defects, hematologic malignancies, osteoporosis, neurodegenerative diseases and viral infections. Omics and computational modeling, interactive study methods, and glycolysis flux measurement are described in detail, with step-by-step descriptions of experimental protocols, set-up and analysis. - Features chapter contributions from international leaders in the field - Spans fundamental aspects of glycolysis, patho-physiology and drug discovery - Includes step-by-step instruction in a range of research protocols, ranging from Omics to interactive analysis and measuring glycolysis flux

redox biology impact factor 2022: CRISPR-Cas-Based Genome Editing for Treating Human Diseases - Part B, 2025-01-01 CRISPR-Cas-Based Genome Editing for Treating Human Diseases, Part B represents CRISPR-Cas systems for genome editing. Currently, CRISPR-Cas systems have been proven to be a key technology for targeted genome editing, which is acting as a simple, rapid, and cost-effective solution. Chapters in this release include Current approaches in CRISPR -Cas systems for metabolic disorders, Recent progress in CRISPR -Cas systems for CRISPR for retinal diseases, Recent progress in CRISPR -Cas systems for cataract and blindness, Advances in CRISPR -Cas systems for muscular dystrophy, Recent development in CRISPR -Cas systems for cardiac disease, Current approaches in CRISPR -Cas systems for diabetes, and much more. Additional sections cover Advances in CRISPR -Cas systems for liver disease, Advances in CRISPR -Cas systems for lung disease, Advances in CRISPR -Cas systems for kidney diseases, Current progress in CRISPR -Cas systems for rare disease, Advances in CRISPR -Cas systems for heredity disease, Recent progress in CRISPR -Cas systems for neurological disorders, and CRISPR challenges in clinical developments. - Provides CRISPR-Cas systems for metabolic disorders, retinal disease cataracts, and blindness - Offer updates on muscular dystrophy, cardiac disease, diabetes, and liver disease - Includes content on lung disease, kidney diseases, rare diseases, heredity diseases, neurological disorders, and CRISPR challenges in clinical developments

redox biology impact factor 2022: Old Protein, New Medicine - Brain-Derived Neurotrophic Factor, 2023-11-08 As a member of the protein family known as neurotrophins, brain-derived neurotrophic factor (BDNF) plays a crucial role in supporting healthy brain function, which includes synaptic plasticity, cellular differentiation, learning, and the survival of nerve cells. Neuronal plasticity refers to the nervous system's ability to adapt and respond to environmental conditions, involving various structural and functional mechanisms that can lead to changes in neural circuits, the formation of new synapses, and the generation of fresh neurons. BDNF has emerged as a significant regulator of neuronal plasticity. It is worth noting that the pathophysiological processes underlying central nervous system disorders and neuropsychiatric conditions such as depression, anxiety, autism, and schizophrenia, as well as neurodegenerative diseases like Parkinson's and Alzheimer's, are influenced by BDNF. Due to its robust neuroprotective properties and recently discovered anti-inflammatory and anti-apoptotic characteristics, BDNF has long been considered a potential candidate for preventing neurodegeneration. In the context of autism spectrum disorder, BDNF holds great promise as a central focus for therapeutic efforts. Its significance extends to the field of spinal cord injury, where it assumes a multifaceted role in the intricate pathophysiological processes at play. BDNF functions as a catalyst for the growth of axons, a crucial step in the restoration of the nervous system following damage. In the context of sepsis, research into the potential of BDNF's anti-inflammatory properties to mitigate organ damage is quite noteworthy. Additionally, current findings suggest that combining exercise with vitamin D may offer a promising approach to increase BDNF levels and improve brain health. This book presents comprehensive information on BDNF and its role in promoting neuroprotection. The chapters offer insights into recent developments, molecular

principles, and innovative therapeutic approaches for neurodegenerative disorders and brain health.

redox biology impact factor 2022: Environmental Stressors and OxInflammatory Tissues Responses Giuseppe Valacchi, Andreas Daiber, 2023-12-15 Environmental risk factors – noise, air pollution, chemical agents, and ultraviolet radiation – impact human health by contributing to the onset and progression of noncommunicable diseases. Accordingly, there is need for preclinical and clinical studies and comprehensive summary of major findings. This book is a state-of-the-art summary of these myriad severe life stressors. The chapters on the different pollutants focus on disease mechanisms (cardiovascular, neurological and metabolic disorders) and on oxidative stress and inflammation. The editors emphasize emerging mechanisms based on dysregulation of the circadian clock, the microbiome, epigenetic pathways, and cognitive function by environmental stressors, and introduce the exposome concept while highlighting existing research gaps. Key Features: Links various environmental stressors to the incidence of noncommunicable diseases Includes chapters on airborne toxins, chemical pollutants, noise, and ultraviolet radiation stressors Contributions from an international team of leading researchers Summarizes the impacts of stressors on disease mechanisms

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Gastrointestinal (GI) disorders encompass a range of conditions affecting the GI tract, including dyspepsia, chronic inflammatory enteropathies (CIE), and malignant tumors. It is estimated that 6 to 60 billion cases of GI illness affect people worldwide each year. Both acute and chronic GI disorders in humans and animal models are characterized by an imbalance in redox homeostasis, which can be caused by either elevated reactive oxygen species (ROS) production or compromised antioxidant defense mechanisms. Oxidative stress (OS) is a recognized cause of GI disorders such as gastroduodenal ulcers, GI cancer, and CIE. There is a growing understanding that the endocrine system plays a role in the development and clinical progression of GI diseases through various mechanisms. Hormonal mechanisms exert a profound impact on various aspects of both immunological and inflammatory processes. Moreover, hormone receptors have been identified in reactive structures inside areas of inflammation, exhibiting a dual capacity to induce both pro- and anti-inflammatory responses. GI hormones, in addition to regulating secretion, absorption, digestion, and gut motility; also play a role in modulating maintenance of the GI mucosa and are implicated in the development of gut mucosal atrophy, neoplasms, and cancers. The pathophysiology of functional GI disorders involves changes in the gut microbiota/gut hormone axis, which significantly impact GI motility. A comprehensive grasp of the importance of hormones in GI diseases is imperative to elucidate the complex interplay between these variables and to discern potential strategies for addressing hormonally influenced GI symptoms/signs in patient subsets, such as women with IBD. The present research topic also addresses the primary endocrine manifestations associated with IBD/CIE, including but not limited to pubertal delay, hypogonadism, growth failure, and changes in lipid and carbohydrate metabolism.

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