

free radical biology and medicine journal impact factor

free radical biology and medicine journal impact factor is a critical metric that reflects the influence and prestige of this specialized scientific journal within the fields of biochemistry, molecular biology, and medical research. As one of the leading publications focusing on oxidative stress, free radicals, and their role in health and disease, the journal's impact factor provides valuable insights for researchers, academicians, and institutions assessing the quality and reach of its published articles. Understanding the free radical biology and medicine journal impact factor involves examining its calculation, historical trends, comparison with related journals, and its significance in advancing scientific knowledge. This article explores these aspects in detail, offering a comprehensive overview that benefits authors, readers, and evaluators interested in free radical research and oxidative medicine.

- Understanding the Impact Factor
- Current Impact Factor of Free Radical Biology and Medicine
- Factors Influencing the Journal's Impact Factor
- Comparison with Related Journals
- Significance of the Impact Factor in Scientific Research
- Strategies to Enhance Journal Impact

Understanding the Impact Factor

The impact factor is a widely recognized bibliometric indicator that measures the average number of citations received per paper published in a specific journal during the preceding two years. It serves as a proxy for the journal's academic influence and relevance in its respective research community. The free radical biology and medicine journal impact factor is calculated annually and published in journal citation reports, reflecting the journal's standing among peers in biomedical and oxidative stress research.

Calculation Methodology

The impact factor calculation involves dividing the total number of citations in a given year to articles published in the journal during the two previous years by the total number of citable items published in those two years. Citable items typically include original research articles and reviews but exclude editorials and letters. This formula provides an average citation rate per article, indicating how frequently the journal's content is referenced in subsequent scientific literature.

Limitations and Considerations

While the impact factor is a useful metric for gauging journal influence, it has limitations. It does not account for the quality or scientific rigor of individual articles and can be influenced by field-specific citation behaviors. Additionally, the metric favors journals with more review articles since reviews generally receive more citations. Researchers should consider these factors alongside other metrics when evaluating the free radical biology and medicine journal impact factor.

Current Impact Factor of Free Radical Biology and Medicine

The free radical biology and medicine journal impact factor has consistently ranked highly among journals focused on oxidative stress and free radical research. As of the latest reports, the journal maintains an impact factor in the range that underscores its leading role in publishing cutting-edge research on molecular mechanisms of oxidative damage, antioxidant defenses, and their implications in various diseases.

Recent Impact Factor Trends

Over the past decade, the free radical biology and medicine journal impact factor has shown a steady increase, reflecting growing interest and advancements in free radical and oxidative stress research. This positive trend is indicative of the journal's ability to attract high-quality manuscripts and its relevance to ongoing scientific challenges in medicine and biology.

Impact Factor Range and Ranking

The journal typically ranks within the top quartile of biochemistry and molecular biology journals, often appearing among the top titles in oxidative medicine and free radical research categories. Its impact factor range usually spans from approximately 6 to 8, placing it among prestigious journals in related disciplines.

Factors Influencing the Journal's Impact Factor

Several factors contribute to the free radical biology and medicine journal impact factor, including editorial policies, publication frequency, article types, and citation practices within the scientific community. Understanding these factors helps contextualize the impact factor and the journal's role in disseminating influential research.

Editorial Standards and Peer Review

The journal maintains rigorous peer review and editorial standards that ensure published articles contribute significant new knowledge. High-quality research attracts citations, which positively affects the impact factor. The emphasis on innovative studies related to oxidative stress and free

radicals enhances the journal's visibility and citation potential.

Article Types and Content Diversity

Publishing a balanced mix of original research articles, comprehensive reviews, and meta-analyses encourages broader citation. Reviews, in particular, tend to accumulate more citations and can substantially boost the free radical biology and medicine journal impact factor. The journal's focus on translational research and clinical applications also broadens its audience and citation base.

Interdisciplinary Appeal

The journal's interdisciplinary approach, covering aspects of biology, medicine, toxicology, and pharmacology, attracts citations from diverse scientific fields. This cross-disciplinary relevance enhances the citation impact and contributes to the journal's growing influence in multiple research areas.

Comparison with Related Journals

Comparing the free radical biology and medicine journal impact factor with those of similar journals provides perspective on its relative standing and influence. This comparison helps researchers decide where to publish and guides institutions in journal evaluation for academic purposes.

Peer Journals in Oxidative Stress Research

Some comparable journals include "Oxidative Medicine and Cellular Longevity," "Antioxidants & Redox Signaling," and "Free Radical Research." While these journals also focus on free radical biology and related topics, the free radical biology and medicine journal often ranks higher in impact factor due to its established reputation, rigorous editorial process, and high citation rates.

Impact Factor Comparison

- **Free Radical Biology and Medicine:** Impact factor typically around 7-8
- **Oxidative Medicine and Cellular Longevity:** Impact factor approximately 4-5
- **Antioxidants & Redox Signaling:** Impact factor near 6-7
- **Free Radical Research:** Impact factor about 3-4

This comparison highlights the free radical biology and medicine journal impact factor as a leading indicator of academic influence in this specialized field.

Significance of the Impact Factor in Scientific Research

The free radical biology and medicine journal impact factor plays a pivotal role in various aspects of scientific research, including author decisions, funding allocations, and academic evaluations. The metric helps stakeholders assess the journal's authority and the potential reach of published research.

Author Considerations

Researchers aiming to maximize the visibility and impact of their work often target journals with higher impact factors. The free radical biology and medicine journal impact factor signals a prestigious platform for disseminating significant findings related to oxidative stress, encouraging submissions from leading scientists worldwide.

Academic and Institutional Use

University departments and research institutions utilize journal impact factors as part of their criteria for evaluating faculty performance, tenure decisions, and grant applications. A publication in a journal with a strong free radical biology and medicine journal impact factor can enhance a researcher's academic profile and credibility.

Funding and Grant Implications

Funding agencies may consider the impact factor of journals where applicants publish as part of their assessment of research quality and influence. Publishing in high-impact journals like free radical biology and medicine can improve funding prospects by demonstrating engagement with leading scientific discourse.

Strategies to Enhance Journal Impact

Journals continuously adopt strategies to improve their impact factor, reflecting their commitment to advancing scientific communication and influence. The free radical biology and medicine journal employs several practices to maintain and elevate its citation metrics.

Encouraging High-Quality Submissions

Soliciting cutting-edge research and comprehensive reviews ensures a steady flow of impactful articles. The journal's editorial board actively engages with the research community to attract manuscripts that address emerging topics and innovative methodologies within free radical biology.

Enhancing Visibility and Accessibility

Improving the dissemination of published content through indexing in major databases, promoting open access options, and leveraging digital platforms increases article visibility and citation potential. These efforts contribute positively to the free radical biology and medicine journal impact factor.

Fostering Collaborative Research

By encouraging interdisciplinary studies and international collaborations, the journal broadens its appeal and citation network. Collaborative research often results in higher citation rates, benefiting the overall impact factor and reinforcing the journal's status in the scientific community.

Publication Frequency and Special Issues

Increasing the number of issues published annually and organizing special issues on trending topics can attract more submissions and citations. Special issues focusing on novel aspects of oxidative stress and free radical biology generate concentrated interest and enhance the journal's reach and impact.

Frequently Asked Questions

What is the current impact factor of the Free Radical Biology and Medicine journal?

As of 2023, the Free Radical Biology and Medicine journal has an impact factor of approximately 7.5, reflecting its strong influence in the fields of free radical research and oxidative stress.

How does the impact factor of Free Radical Biology and Medicine compare to other journals in the field of biochemistry and molecular biology?

Free Radical Biology and Medicine maintains a competitive impact factor around 7.5, placing it among the top-tier journals in biochemistry and molecular biology, particularly in the niche of oxidative stress and free radical research.

Why is the impact factor important for the Free Radical Biology and Medicine journal?

The impact factor is important because it indicates the average number of citations to recent articles published in the journal, helping researchers assess the journal's prestige and influence in the scientific community.

Where can I find the official impact factor for Free Radical Biology and Medicine?

The official impact factor for Free Radical Biology and Medicine can be found in the Journal Citation Reports (JCR) published annually by Clarivate Analytics, or on the journal's official website.

Has the impact factor of Free Radical Biology and Medicine increased in recent years?

Yes, the impact factor of Free Radical Biology and Medicine has generally shown an upward trend over the past few years, reflecting growing interest and citation rates in research related to oxidative stress and free radical biology.

Additional Resources

1. *Free Radical Biology and Medicine: Principles and Perspectives*

This comprehensive book covers the fundamental principles of free radical biology, including the chemistry of reactive oxygen species and their biological effects. It delves into the role of free radicals in cellular signaling, aging, and disease processes. Ideal for researchers and students, it provides a solid foundation in understanding oxidative stress and its implications in medicine.

2. *Oxidative Stress and Redox Signaling in Disease*

Focusing on the connection between oxidative stress and various diseases, this book explores how free radicals contribute to pathophysiological conditions. It includes chapters on cardiovascular, neurodegenerative, and inflammatory diseases, highlighting current research trends. The text also discusses potential therapeutic strategies targeting redox imbalances.

3. *Antioxidants in Biology and Medicine*

This volume examines the role of antioxidants in neutralizing free radicals and protecting biological systems from oxidative damage. It reviews natural and synthetic antioxidants, their mechanisms of action, and clinical applications. The book is useful for understanding how antioxidant therapy can be optimized in medical practice.

4. *Redox Biology and Aging: Molecular Mechanisms and Clinical Implications*

Exploring the link between redox biology and the aging process, this book highlights how oxidative stress influences cellular senescence and age-related diseases. It presents experimental evidence and therapeutic approaches aimed at mitigating age-associated oxidative damage. The text appeals to both basic scientists and clinicians interested in gerontology.

5. *Free Radicals in Human Health and Disease*

This title provides an in-depth analysis of how free radicals impact human health, contributing to conditions such as cancer, diabetes, and neurodegeneration. It discusses biomarkers of oxidative stress and advances in diagnostic methodologies. The book also addresses the challenges in translating free radical research into clinical treatments.

6. *Reactive Oxygen Species: From Chemistry to Medicine*

Covering the chemical nature of reactive oxygen species (ROS) and their biological significance, this book bridges basic science with clinical applications. It includes chapters on ROS generation,

detection techniques, and their dual role in physiology and pathology. The text is beneficial for those interested in the therapeutic modulation of ROS.

7. Journal Impact Factors in Biomedical Research: Metrics and Analysis

Although not solely focused on free radical biology, this book offers valuable insights into journal impact factors, including those related to Free Radical Biology and Medicine. It explains how impact factors are calculated and their significance in academic publishing. Researchers can use this knowledge to better understand the influence of scientific journals in their field.

8. Oxidative Stress and Inflammation: Molecular Mechanisms and Therapeutic Perspectives

This book explores the interplay between oxidative stress and inflammation, two key factors in many chronic diseases. It discusses molecular pathways, clinical implications, and novel therapeutic targets. The comprehensive coverage makes it a useful resource for researchers working on inflammation-related oxidative damage.

9. Redox Medicine: Translating Free Radical Biology into Clinical Practice

Focusing on the translation of free radical research into clinical therapies, this book addresses diagnostic and treatment strategies based on redox biology. It highlights recent advances in redox biomarkers and personalized medicine approaches. The text is aimed at clinicians and researchers seeking to apply redox science in healthcare settings.

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free radical biology and medicine journal impact factor: Metabolism and Medicine Brian Fertig, 2022-01-31 Chronic disease states of aging should be viewed through the prism of metabolism and biophysical processes at all levels of physiological organization present in the human body. This book connects these insights to what causes them to go awry in the context of unhealthy human behaviors and aging, aiming to buttress scientific creativity. It also provides links between the art and science of medicine that strengthens problem-solving in patient care. New and important discoveries in the area of metabolic health and metabolic diseases are discussed in exquisite detail. Key Features: Broad and up-to-date overview of the field of metabolic aspects of health and chronic disease development, especially connecting the spectrum of topics that range from molecular clocks to stress response to nuclear hormone receptors and the role of microbiota in human health Provides a deeper basic science and interdisciplinary understanding of biological systems that broaden the perspectives and therapeutic problem solving by elaborating on the usefulness of the Physiological Fitness Landscape Describes the importance of insulin resistance in metabolic disease, especially diabetes but also includes links to cancer and Alzheimer's disease Examines the process of aging from the perspective of metabolic decline illustrating it with the Physiological Fitness Landscape This book, the second volume in a two-volume set, primarily targets an audience of clinical and science students, biomedical researchers and physicians who would benefit from understanding each other's language.

free radical biology and medicine journal impact factor: The Role of Iron in Cancer

Progression Maryam Mehrpour, Ahmed Hamaï, Chang Gong, 2022-11-04

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free radical biology and medicine journal impact factor: Comprehensive Toxicology , 2017-12-01 Comprehensive Toxicology, Third Edition, Fifteen Volume Set discusses chemical effects on biological systems, with a focus on understanding the mechanisms by which chemicals induce adverse health effects. Organized by organ system, this comprehensive reference work addresses the toxicological effects of chemicals on the immune system, the hematopoietic system, cardiovascular system, respiratory system, hepatic toxicology, renal toxicology, gastrointestinal toxicology, reproductive and endocrine toxicology, neuro and behavioral toxicology, developmental toxicology and carcinogenesis, also including critical sections that cover the general principles of toxicology, cellular and molecular toxicology, biotransformation and toxicology testing and evaluation. Each section is examined in state-of-the-art chapters written by domain experts, providing key information to support the investigations of researchers across the medical, veterinary, food, environment and chemical research industries, and national and international regulatory agencies. Thoroughly revised and expanded to 15 volumes that include the latest advances in research, and uniquely organized by organ system for ease of reference and diagnosis, this new edition is an essential reference for researchers of toxicology. Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in-depth, comprehensive coverage from an international author base of domain experts

free radical biology and medicine journal impact factor: Silver Universe Laura Dryjanska, Roberto Giua, 2018-09-15 Silver Universe explores the topic of aging through an interdisciplinary lens while promoting their new idea of "active living" which incorporates exercise alongside a healthy diet and the implementation of disease prevention. The diverse group of contributors shed light on the connections between the psychological, emotional, and physical aspects of aging. From psychology (both clinical and social), through neurology, neurogenetics, gerontology, nutrition, economics, communication, law, tourism and theology, this book offers complimentary views on active living to ensure a high quality of life.

free radical biology and medicine journal impact factor: Breastfeeding Management for the Clinician Marsha Walker, 2016-06-06 Breastfeeding Management for the Clinician: Using the Evidence, Fourth Edition is an essential and practical reference guide for clinicians. Using a research-based approach, it includes literature reviews while covering incidence, etiology, risk factors, prevention, prognosis and implications, interventions, expected outcomes, care plans, and clinical algorithms. With a focus on the practical application of evidence-based knowledge, this reference offers a problem-solving approach to help busy clinicians integrate the latest research into everyday clinical practice. Completely updated and revised, the Fourth Edition includes a new

discussion of the vitally important newborn gut microbiome. In addition, it features new and more effective techniques for addressing breastfeeding barriers, new research, and the latest guidelines.

free radical biology and medicine journal impact factor: Ecological and Human Health

Impacts of Contaminated Food and Environments Ming Hung Wong, 2025-07-16 This book discusses linkages between the natural and disturbed chemical composition of the earth's surface and ecological and human health. It reviews the environmental geochemical cycles of natural elements and persistent toxic substances (PTS) in the environment, highlighting the degradation of soil and water resources due to human activities such as extraction and usage of minerals. There is an attempt to provide evidence concerning the health effects of consuming contaminated food, due to frequent consumption of mercury-laden fish. Lastly, sources, fates, and ecological effects of various PTS are presented, including microplastics and associated chemicals. Details linkages between the natural and disturbed chemical composition of the earth's surface, and environmental and human health, focusing on food contamination Discusses emerging pollutants with potential widespread hazardous effects such as bisphenol A and phthalates Reviews safe food production and quality, as well as the management, regulation and policies concerning toxic chemicals Contains cutting edge knowledge on safe food production and remediating technologies Describes how geochemical cycling results in food contamination

free radical biology and medicine journal impact factor: Role of Antioxidants in Mitigating Plant Stress Azamal Husen, 2025-07-01 Role of Antioxidants in Mitigating Plant Stress explores the fundamental roles and mechanistic approaches of antioxidant stress tolerance strategies. With chapters addressing both enzymatic and non-enzymatic antioxidants, it provides a clear guide for understanding plant responses. Presenting current understanding of these components, the book features their role, molecular properties, and reaction mechanisms to various environmental conditions. This book provides an important reference for researchers and advanced level students seeking to improve plant health. Plants are regularly exposed to various kinds of abiotic and biotic stresses in their natural environmental conditions. These stresses have significant influence on agriculture worldwide and thus, lead to massive economic losses as well as food insecurity. Research has identified many of the effects of, and mitigation techniques for, various stresses that impact plant systems. Strategies for strengthening the antioxidant defense system can increase yields and protect crop plants from a variety of stresses. - Discusses the modulation of antioxidant systems that enable plants to initiate short- and long-term mitigation responses - Examines the potential of non-enzymatic and enzymatic antioxidants in stress response - Explores coordination of antioxidants, plant hormones, and PGPR for higher plant performance under various stresses

free radical biology and medicine journal impact factor: Pulmonary Vasculature Redox

Signaling in Health and Disease Yong-Xiao Wang, 2017-10-18 The main goal of this book is to form a high-quality platform in which well-known and emerging pioneering basic, translational and clinical scientists can present their latest, exciting findings in the studies of redox signaling in the pulmonary vasculature. Content from outstanding investigators with unique expertise and skills of molecular and cell biology, biochemistry, physiology, pharmacology, biophysics, biotechnology and medicine will update our current out-of-date concepts with new knowledge. Rapidly increasing scientific studies have gathered a large volume of novel and important information on redox signaling in healthy and diseased pulmonary vasculature. This volume covers the need for a cohesive book to display state-of-the-art advances in the field. The second major aim of this book is to help direct future research. Redox signaling is a major molecular process involved in almost every physiologic cellular response in the pulmonary vasculature including energy metabolism, host defense, gene expression, contraction, proliferation, and migration. Aberrancy in this important signaling pathway leads to a critical role in the development of nearly all pulmonary diseases, such as pulmonary hypertension, cor pulmonale, pulmonary edema, and vasculitis, among others.

free radical biology and medicine journal impact factor: Advances in Food and Nutrition Research , 2017-04-17 Advances in Food and Nutrition Research, Volume 82 provides updated

knowledge on nutrients in foods and how to avoid deficiency. Topics covered in this latest release include Phenolic Compounds and its Bioavailability: In Vitro Bioactive Compounds or Health Promoters?, Health Risks of Food Oxidation, Metabolomics, Nutrition, and Potential Biomarkers of Food Quality, Intake, and Health Status, Improvement of Soybean Products Through the Response Mechanism Analysis Using Proteomic Technique, and Nanotechnology for Food Packaging and Food Quality Assessment. This resource is especially useful for those interested in the essential nutrients that should be present in the diet to reduce disease risk and optimize health. It provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits, as well as up-to-date information on food science, including raw materials, production, processing, distribution and consumption, with an emphasis on nutritional benefits and health effects. - Features input from contributors who have been carefully selected based on their long experience and high expertise on the subject - Provides an updated and in-depth critical discussion of the latest knowledge about nutrients in foods and how to avoid their deficiency - Provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefit - Offers up-to-date information on food science, including raw materials, production, processing, distribution and consumption, with an emphasis on nutritional benefits and health effects

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free radical biology and medicine journal impact factor: Milk and Dairy Products in Human Nutrition Young W. Park, George F. W. Haenlein, 2013-04-09 Milk is nature's most complete food, and dairy products are considered to be the most nutritious foods of all. The traditional view of the role of milk has been greatly expanded in recent years beyond the horizon of nutritional subsistence of infants: it is now recognized to be more than a source of nutrients for the healthy growth of children and nourishment of adult humans. Alongside its major proteins (casein and whey), milk contains biologically active compounds, which have important physiological and biochemical functions and significant impacts upon human metabolism, nutrition and health. Many of these compounds have been proven to have beneficial effects on human nutrition and health. This comprehensive reference is the first to address such a wide range of topics related to milk production and human health, including: mammary secretion, production, sanitation, quality standards and chemistry, as well as nutrition, milk allergies, lactose intolerance, and the bioactive and therapeutic compounds found in milk. In addition to cow's milk, the book also covers the milk of non-bovine dairy species which is of economic importance around the world. The Editors have assembled a team of internationally renowned experts to contribute to this exhaustive volume which will be essential reading for dairy scientists, nutritionists, food scientists, allergy specialists and health professionals.

free radical biology and medicine journal impact factor: Phytochemicals in Citrus Xingqian Ye, 2017-09-11 Citrus fruits have long been popular around the world due to their good flavor, taste, high nutritional value, and their healthy properties. Citrus is well known as a rich

source of vitamin C. Citrus fruits also contain many other functional bioactive phytochemicals including terpenoids, triterpenes, flavonoids, amino acids, phenolic acids, mineral constituents, and polysaccharides, which are beneficial to human health. Citrus fruits are generally recognized as an outstanding source of biologically active compounds related to both nutritional and nutraceutical values. *Phytochemicals in Citrus: Applications in Functional Foods* focuses on up-to-date information on chemical properties of citrus fruits, citrus food products, and their health benefits. The 16 chapters in the book provide a knowledge base on the chemical composition, bioactive components, biochemical properties, food use, and health benefits of citrus fruits. The information in this book will help readers to better understand the health benefits of citrus fruits and products and their dietary applications. The book is a unique reference for food science professionals engaged in functional foods and nutritional dietary management. The book can also serve as a handy reference for college and university students majoring in food science, nutrition, pharmaceutical science, and horticultural science.

free radical biology and medicine journal impact factor: The Encyclopedia of Vitamin E Victor R. Preedy, Ronald Ross Watson, 2007 Vitamin E is an important dietary constituent which helps in the defence against cellular damage. The process of its absorption from food and its utilization by the body is an intricate series of reactions. It is also used therapeutically in treating numerous diseases and conditions such as skin damage and the prevention of pathological lesions in major organs, and has been shown to be an important factor in preventing heart disease and cancer. Over 100 chapters from international contributors make this book the most comprehensive reference work in describing both the positive and negative effects and actions of Vitamin E. Chapters are divided into subsections which cover: nomenclature, biochemical, physical and chemical aspects of vitamin E related compounds; dietary and nutritional influences and effects; cocktails, anti-oxidants mixtures and novel analogues; general physiological systems, metabolism and metabolic stress; brain, neurological and optical systems; reproductive systems, fetus and infant; musculo-skeletal systems and exercise; cardiovascular and pulmonary systems; skin; hepatic, nephrotic and gastrointestinal systems; immune and haematological systems and cancer.

free radical biology and medicine journal impact factor: Cardiovascular Disease BNF (British Nutrition Foundation), Sara Stanner, Sarah Coe, Keith N. Frayn, 2019-05-06 A comprehensive, accessible summary of the latest research in heart disease risk factors Cardiovascular Disease (CVD) is a major cause of early death and disability across the world. The major markers of risk—including high blood cholesterol, smoking, and obesity—are well known, but studies show that such markers do not account for all cardiovascular risk. Written by a team of renowned experts in the field, this comprehensive and accessible book examines the evidence for emerging and novel risk factors, and their relationship with diet and nutrition. Fully updated throughout, *Cardiovascular Disease: Diet, Nutrition and Emerging Risk Factors*, 2nd Edition covers everything from the epidemiology of cardiovascular disease, to genetic factors, to inflammation and much more – offering invaluable advice on reducing risk factors and preventing CVD. This new edition: Authoritatively reports on the link between emerging aspects of diet, lifestyle and cardiovascular disease risk Focuses on novel risk factors of CVD, including the human gut microbiome and fetal and childhood origins, and how it can be prevented Features recommendations for interventions and future research Includes references, commonly asked questions that summarise the take-home messages, and an online glossary *Cardiovascular Disease: Diet, Nutrition and Emerging Risk Factors*, 2nd Edition is an important book for researchers and postgraduate students in nutrition, dietetics, food science, and medicine, as well as for cardiologists and cardiovascular specialists.

free radical biology and medicine journal impact factor: Maternal-Fetal interface: new insight in placenta research, volume II Cilia Abad, Reinaldo Marín, Alicia E. Damiano, Mariana Farina, 2025-08-18 Given the success of the *Maternal-Fetal Interface: New Insight in Placenta Research*, we are pleased to announce the launch of Volume II. The placenta is a fascinating and ephemeral organ of life, which fulfils several functions to create and maintain optimal in utero

conditions for fetal development and programming. During its short period of time in the intrauterine cavity, the fetus is dependent on the placenta as a lung, liver and kidneys. Functionally, the placenta is a highly specialized organ, which represents the interface between the mother and the fetus and is essential for fetal development and growth. Apart from enabling oxygen and nutrient exchange, the placenta produces various hormones, neurotransmitters and other factors that regulate fetal development. Extensive research over the last three decades has shown that a balanced interplay of genetic, epigenetic, and environmental factors is critical and must be maintained during the whole period of gestation so that the architecture and programming of a growing fetus can develop properly. Nevertheless, physiological alterations or insults occurring during pregnancy (such as pathologies, medication, malnutrition) may disrupt this balance and lead to poor pregnancy outcomes. The timing of internal/external alterations in pregnancy will result in different effects on fetal development and/or programming. This Research Topic will bring together research that addresses the new insights in maternal fetal interface research in health and disease. We welcome original research articles, clinical studies, reviews, and perspectives toward understanding the Maternal-Fetal interface. Specific themes include, but are not limited to: 1. Transport and metabolism of placenta 2. Transcriptome and epigenome of trophoblast 3. Pregnancy diseases 4. Metabolism studies on placenta organoids 5. Lipidomic on Health and Diseases of Pregnancy 6. COVID-pregnancy and vaccines 7. Animal and cell models for study of pregnancy pathologies 8. Biology of trophoblast 9. Extracellular vesicles in pregnancy 10. Role of placenta in fetal programming 11. Brain-placental axis

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free radical biology and medicine journal impact factor: *Nanomedicines and Nanoproducts* Eiki Igarashi, 2018-10-08 Nanomedicines and Nanoproducts: Applications, Disposition, and Toxicology in the Human Body provides a detailed overview of the disposition of nanoproducts within the body, with a special focus on the respiratory and olfactory routes of nanoproduct administration, buccal exposure and the ingestion of nanoproducts, the integumentary system (formed by the skin, hair, nails, and associated glands), the ocular route, the systemic route, and toxicology as it relates to the nanoscale world. Offering an interdisciplinary, big-picture view of the current and future state of nanotechnology, this book: Identifies key points for the entry of

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Santrock, 2016-09-16 Ebook: Life-Span Development

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word usage - Alternatives for "Are you free now?" - English I want to make a official call and ask the other person whether he is free or not at that particular time. I think asking, "Are you free now?" doesn't sound formal. So, are there any

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