

# The Respiratory Burst and Its Physiological Significance

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Edited by  
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Robert R. Strauss

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# Respiratory Burst And Its Physiological Significance

**Mariana J. Kaplan, Marko Radic, Martin  
Herrmann**



## **Respiratory Burst And Its Physiological Significance:**

**The Respiratory Burst and Its Physiological Significance** A.J. Sbarra, R.R. Strauss, 2012-12-06 When phagocytes are exposed to a number of different stimuli they undergo dramatic changes in the way they process oxygen. Oxygen uptake increases markedly frequently more than 50 fold the phagocytes begin to produce large quantities of superoxide and hydrogen peroxide and they immediately begin to metabolize large amounts of glucose by way of the hexose monophosphate shunt. This series of changes has become known as the respiratory burst. It was first believed that the major function of this respiratory burst was to generate powerful antibacterial agents by the partial reduction of oxygen. It is becoming apparent that the respiratory burst has much wider application and its physiological function in many different biological areas is clear. In this volume we have attempted to bring together the work of experts who have published extensively on the involvement of the respiratory burst in different physiological functions. In the first three chapters Dr Borregaard and Dr Berton and co workers and Dr Roos and co workers bring together what is known about the respiratory burst. They present up to date versions of the biochemical and metabolic activities associated with the burst. In Chapter 4 Dr Styrt and Dr Klempner discuss the respiratory burst as it affects cellular ion homeostasis. Dr Cohen and Dr Britigan Chapter 5 present some interesting data on the competition between the respiratory burst and bacteria for oxygen. Dr Dobrina and Dr

**Biological Oxidation Systems V2** C.C. Reddy, 2012-12-02 Biological Oxidation Systems Volume II discusses the various antioxidants and antioxidant enzymes that play significant roles in protecting cells from deleterious reactions between their structural functional components and the free radicals. This book examines the myriad chemical reactions of a cell's metabolic activity that produce a variety of free radicals. Comprised of three parts encompassing 35 chapters this volume starts with an overview of the metabolism of xenobiotics during arachidonic acid metabolism. This book then discusses the various causes of human cancers and diseases which include exposure to environmental chemicals and other toxicants. This text considers the dietary habits and nutritional factors that play an important role in the causation and development of several human cancers including cancer of the breast, colon, prostate and other organs. Other chapters discuss the toxic effects of several xenobiotics that involve free radical mechanisms. Biochemists, biophysicists, microbiologists, organic chemists, food chemists and medical scientists will find this book extremely useful. [Biological Reactive Intermediates IV](#) Charlotte M. Witmer, Robert R. Snyder, David J. Jollow, George F. Kalf, James J. Kocsis, 2013-03-09 The finding that chemicals can be metabolically activated to yield reactive chemical species capable of covalently binding to cellular macromolecules and the concept that these reactions could initiate toxicological and carcinogenic events stimulated a meeting by a small group of toxicologists at the University of Turku in Finland in 1975. Jollow et al 1977 The growing interest in this field of research led to subsequent symposia at the University of Surrey in England in 1980, Snyder et al 1982 and the University of Maryland in the U S A in 1985. Kocsis et al 1986 The Fourth International Symposium on Biological Reactive Intermediates

was hosted by the Center for Toxicology at the University of Arizona and convened in Tucson Arizona January 14 17 1990 Over 300 people attended There were 60 platform presentations by invited speakers and 96 volunteer communications in the form of posters were offered These meetings have grown from a small group of scientists working in closely related areas to a major international series of symposia which convene every five years to review and place in context the latest advances in our understanding of the formation fate and consequences of biological reactive intermediates The Organizing Committee Allan H Conney Robert Snyder Co chairman and Charlotte M Witmer Rutgers University Piscataway NJ David J Jollow Co chairman Medical University South Carolina Charleston SC 1 Glenn Sipes Co chairman University of Arizona Tucson AZ James J Kocsis and George F NADPH Oxidases Revisited: From Function to Structure Edgar Pick,2023-06-22 This book provides a unique comprehensive and up to date overview of the various NADPH oxidases and narrates the history of their discovery biochemical characteristics genetics molecular structure and multiple functions in health and disease It covers the subject in a manner that serves both the expert and the novice researcher in the field The book starts with an overview of the major milestones in the discovery of the archetypical NADPH oxidase known as cytochrome b558 and its cytosolic regulators This is followed by personal recollections by pioneers of the field descriptions of the work of the major figures of the past by their followers and a rendering of the history of the discovery of the Nox family The central section of the book consists of chapters devoted specifically to an in depth description of the individual members of the Nox family and is followed by chapters focused on the modulators of their function A subsequent section comprises chapters dealing with methodologies of Nox research interaction with other proteins and Nox inhibitors A distinct section of the book deals with non mammalian Noxs from amoeba to zebrafish Subsequent chapters focus on Nox structure a field in which extraordinary progress was made in recent years The volume ends with chapters on Chronic Granulomatous Disease the consequence of Nox loss of function and its treatment by gene therapy The coda is a crystal ball perspective of the hopes for the clinical translation of basic Nox research Written for biochemists cell biologists molecular biologists and clinicians this book is aimed at both senior scientists and young investigators in the field *Free Radical Mechanisms of Tissue Injury* Mary Treinen Moslen,Charles V. Smith,1992-02-21 This timely volume describes the contributions of free radicals and reactive oxygen species to disease processes in a variety of tissues Topics include the roles of lipid peroxide modified lipoproteins in atherosclerosis peroxidation products in retinopathy reactive oxygen species and neutrophils in myocardial ischemia reflow injury iron and reactive oxygen species in hemoglobin mediated CNS damage and in asbestos mediated lung injury Critical reviews examine the evidence for radical species in ethanol induced liver injury and in muscular dystrophy The wealth of new information presented makes this book valuable for teaching and an important reference volume for researchers exploring problems in human disease National Library of Medicine Current Catalog National Library of Medicine (U.S.),1989

**Advances in Clinical Chemistry** ,2000-10-11 For more than thirty years this serial has broadened the technical scope

and expanded the scientific base of clinical chemistry These volumes clarify the areas of molecular biology informatics and the monitoring of physiological parameters in critical situations as they pertain to clinical chemistry Each volume of *Advances in Clinical Chemistry* contains an index and each chapter includes references Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Luminescence Biotechnology** Knox Van Dyke, Christopher Van Dyke, Karen Woodfork, 2001-12-20 The dangers and drawbacks inherent in radioactivity based methods along with a demonstrated and dramatic increase in sensitivity have precipitated a major shift towards luminescence measurements and visualization techniques Their use has now spread even to traditional clinical environments and their applications have grown from clinical assays to *Advances in Structural Biology* S.K. Malhotra, 1996-06-21 The present volume continues the trend established in previous volumes in this series on *Advances in Structural Biology* As in the past diverse topics of current importance relevant to the theme of the series are included in the fourth volume **Journal of Nutritional Immunology**, 1994 N-Oxidation of Drugs P. Hlavica, L.A. Damani, 2012-12-06 **Physiology of the Gastrointestinal Tract, Two Volume Set** Hamid M. Said, 2012-07-04 *Physiology of the Gastrointestinal Tract* Fifth Edition winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine covers the study of the mechanical physical and biochemical functions of the GI Tract while linking the clinical disease or disorder bridging the gap between clinical and laboratory medicine The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life Other diseases and disorders treated by clinicians in this area include food allergies constipation chronic liver disease and cirrhosis gallstones gastritis GERD hemorrhoids IBS lactose intolerance pancreatic appendicitis celiac disease Crohn's disease peptic ulcer stomach ulcer viral hepatitis colorectal cancer and liver transplants The new edition is a highly referenced and useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated four color illustrations *The Neutrophil: Cellular Biochemistry and Physiology* Maurice B. Hallett, 2018-01-18 A synthesis and collation of the recent material regarding the role of the neutrophil in basic pathological processes is presented in this volume The mechanisms of chemotaxis secretion phagocytosis intracellular killing oxygen radical production and arachidonate production are comprehensively reviewed Stimulus response coupling in the neutrophil with chapters on intracellular Ca<sup>2+</sup> C Kinase phospholipid metabolism microfilaments and membrane electrophysiology are extensively discussed Each chapter provides a critical review by experts with over 1 000 cited references Invaluable to graduate students and medical and scientific researchers this book provides a unique up to date account of cellular biochemistry and physiology of the neutrophil **Xenobiotic Metabolism and Disposition** Ryūichi Katō, Ronald W. Estabrook, M. N. Cayen, 1989 Papers of the May 1988 meeting They provide an overview of recent research

and current theory in the field Topics include the molecular biology and multiplicity of cytochrome P 450 non P 450 enzymes drug design and delivery stereochemical aspects characteristics of drug metabolism in humans

**NETosis 2: The Excitement Continues** Mariana J. Kaplan, Marko Radic, Martin Herrmann, 2017-12-28 NETosis a form of cell death that manifests by the release of decondensed chromatin to the extracellular space provides valuable insights into mechanisms and consequences of cellular demise Because extracellular chromatin can immobilize microbes the extended nucleohistone network was called a neutrophil extracellular trap NET and the process of chromatin release was proposed to serve an innate immune defense function Extracellular chromatin NETs were initially observed in studies of neutrophils and are most prominent in these types of granulocytes Subsequent studies showed that other granulocytes and in a limited way other cells of the innate immune response may also release nuclear chromatin following certain kinds of stimulation Variations of NETosis were noted with cells that remain temporarily motile after the release of chromatin Numerous stimuli for NETosis were discovered including bacterial breakdown products inflammatory stimuli particulate matter certain crystals immune complexes and activated thrombocytes Fundamental explorations into the mechanisms of NETosis observed that neutrophil enzyme activity PAD4 neutrophil elastase proteinase 3 and myeloperoxidase and signal transduction pathways contribute to the regulation of NETosis Histones in NET chromatin become modified by peptidylarginine deiminase 4 PAD4 and cleaved at specific sites by proteases leading to extensive chromatin externalization In addition NETs serve for attachment of bactericidal enzymes including myeloperoxidase leukocyte proteases and the cathelicidin LL 37 NETs are decorated with proteases and may thus contribute to tissue destruction However the attachment of these enzymes to NET associated supramolecular structures restricts systemic spread of the proteolytic activity While the benefit of NETs in an infection appears obvious NETs also participate as key protagonists in various pathologic states Therefore it is essential for NETs to be efficiently cleared otherwise digestive enzymes may gain access to tissues where inflammation takes place Persistent NET exposure at sites of inflammation may lead to a further complication NET antigens may provoke acquired immune responses and over time could initiate autoimmune reactions serve as antigen for nuclear autoantibodies and foster DNA immune complex related inflammation Neutrophil products and deiminated proteins comprise an important group of autoantigens in musculoskeletal disorders Aberrant NET synthesis and or clearance are often associated with inflammatory and autoimmune conditions Recent evidence also implicates aberrant NET formation in the development of endothelial damage atherosclerosis and thrombosis Intravital microscopy provides evidence for conditions that induce NETosis in vivo Furthermore NETs can easily be detected in synovial fluid and tissue sections of patients with arthritis and gout NETosis is thus of interest to researchers who investigate innate immune responses host pathogen interactions chronic inflammatory disorders cell and vascular biology biochemistry and autoimmunity As we enter the second decade of research on NETosis it is useful and timely to review the mechanisms and pathways of NET formation their role in bacterial and fungal defense and

their importance as inducers of autoimmune responses

### **Reviews of Physiology, Biochemistry and Pharmacology**

Bernd Nilius, Thomas Gudermann, Reinhard Jahn, Roland Lill, Ole H. Petersen, Pieter P. de Tombe, 2015-10-16

Leading researchers are specially invited to provide a complete understanding of the key topics in these archetypal multidisciplinary fields In a form immediately useful to scientists this periodical aims to filter highlight and review the latest developments in these rapidly advancing fields

#### The Physiology of Dolphins

Andreas Fahlman, Sascha K. Hooker, 2023-11-25 The Physiology of Dolphins explains complex physiological problems of dolphins that are largely driven by technological developments of biologging tools The book provides a collection of review chapters from leaders in the field of dolphin ecophysiology making it essential for instructors researchers and graduate students interested in the physiological and anatomical adaptations that make life possible for this charismatic marine mammal Sections cover the complete physiology of the mammal and include information on the current threats for dolphins and whales from environmental pressures such as climate change overfishing pollution and our increasing human presence in the ocean This is an excellent reference providing easy to follow details of the latest available research methods and technologies that is expanding the field of physiology in marine mammals

Describes complex physiological themes such as the neural control of the dive response and how compression affects gas exchange

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Incorporates diagrams and other visual representations to best describe these complex systems and activities

### **The**

**Journal of Immunology**, 2009

### **Go with the Vet-Flow! The Current Uses and New Frontiers of Flow Cytometry in**

**Veterinary Sciences** Fulvio Riondato, Francesco Grandoni, Alberto Alvarez-Barrientos, 2025-04-10 Flow cytometry FC is a powerful and flexible technology that allows the multiparametric characterization of single cells or small particles In humans it is currently used in basic research and diagnosis in oncology immunology and haematology In the veterinary field it has steadily grown in the last decades for diagnosing and characterizing lymphomas and leukaemias in pets Furthermore FC is applied in different areas of possible veterinary interest such as microbiology virology pharmacology reproduction farm and marine animals wildlife aquaculture food production and control and more Finally it can set or expand its usefulness in different fields with applications aimed for instance to help diagnostic prognostic evaluations in clinical settings checking the health welfare status of animals screening for specific diseases improving feed quality vaccine development warrant food health Nevertheless veterinary FC still has critical limitations such as the availability of reagents and instruments in the field particularly fluorescent monoclonal antibodies and the low uptake of the latest technological innovations imaging or spectral flow cytometry mass cytometry

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