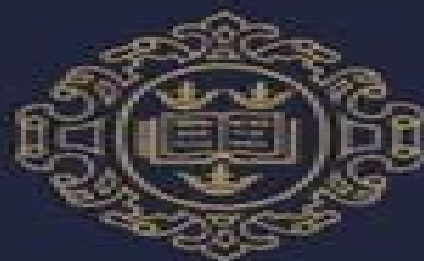


# **Peripheral Arterial Chemoreceptors and Respiratory-Cardiovascular Integration**

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# Peripheral Arterial Chemoreceptors And Respiratory Cardiovascular Integration

**John E. Reynolds**



## **Peripheral Arterial Chemoreceptors And Respiratory Cardiovascular Integration:**

**Peripheral Arterial Chemoreceptors and Respiratory-cardiovascular Integration** Michael de Burgh Daly, 1997 The peripheral arterial chemoreceptors are small organs situated in the neck and chest that play an important role in the control of the heart and circulation Stimulation of the chemoreceptors can occur as a result of changes in respiration for example when the body is partly deprived of oxygen The book provides the first detailed account of all the important research done in this field from the first discovery of chemoreceptors up to the present day and the work currently being done within this area Throughout the book there is an emphasis on methodology and experimental design As well as being of considerable interest to physiologists the book contains chapters that would appeal to those interested in the historical morphological medico legal and clinical aspects of the subject

### **Peripheral Arterial Chemoreceptors and Respiratory-cardiovascular**

**Integration** Michael Burgh Daly, 2023 The book describes how changes in respiration can affect the heart and circulation with particular reference to the control of the two systems by small organs known as chemoreceptors which are situated in the neck and chest

Arterial Chemoreceptors Constancio Gonzalez, Colin A. Nurse, Chris Peers, 2009-04-21 This book offers an updated review of the physiology of the carotid body chemoreceptors It provides the trends in the field as it contains results in the topics that are at the frontiers of future developments in O<sub>2</sub> sensing in chemoreceptor cells

*Augmentation of Peripheral Chemosensitivity During Hypermetabolism* Ismaeel Bin-Jaliah, 2006 The carotid body initiates reflexes aimed principally at the homeostatic maintenance of blood gas tensions This thesis tested the hypothesis that the carotid body is also a physiological glucosensor with a role in mediating exercise hyperpnoea In anaesthetised rats insulin induced hypoglycaemia from ca 6.5 to 2.8 mmol L<sup>-1</sup> caused an ca two fold increase of oxygen consumption that was associated with a significant carotid body dependent increase in ventilation from ca 420 to 640 ml min<sup>-1</sup> kg<sup>-1</sup> without change in blood gas tensions This hypoglycaemic hyperpnoea was associated with hypokalaemia and no alterations of ventilation or metabolism were observed in euglycaemic control studies thus excluding any role for K<sup>+</sup> or insulin During hypermetabolism a proportional augmentation of peripheral CO<sub>2</sub> gain measured from the phrenic electroneurogram during artificial ventilation was shown to maintain the arterial blood gas status In vitro measurements of single fibre chemoafferent discharge showed that low glucose over a physiological range and during normoxia increased neither the carotid baseline discharge nor the CO<sub>2</sub> sensitivity Taken together these results demonstrate that the carotid body is not a physiological sensor of glucose but augmentation of the carotid body chemosensitivity via an undetermined yet hypermetabolism related factor s is most likely to be involved in exercise hyperpnoea

Chemoreception Jean-Marc Pequignot, Constancio Gonzalez, Colin A. Nurse, Nanduri R. Prabhakar, Yvette Dalmaz, 2012-12-06 Since 1959 the International Society of Arterial Chemoreception ISAC has organized in a variety of countries fifteen scientific meetings devoted to the mechanisms of peripheral arterial chemoreception and chemoreceptor reflexes After the meeting held in Philadelphia with Sukhamay Lahiri as president ISAC membership elected

Lyon CNRS University Claude Bernard France as the site of the xv ISAC Symposium The Symposium was effectively held in Lyon from the 18th to the 22nd of November 2002 and Jean Marc Pequignot was its president The organizers were Jean Marc Pequignot and Yvette Dalmaz Lyon CNRS University Claude Bernard France and the Scientific Committee was formed by John Carroll University of Arkansas for Medical Sciences USA Constancio Gonzalez University of Valladolid Spain Prem Kumar University of Birmingham U K Sukhamay Lahiri University of Pennsylvania Philadelphia USA Colin Nurse McMaster University Hamilton Ontario Canada and Nanduri Prabhakar Case Western University Cleveland Ohio USA The Symposium in Lyon intended to follow the path opened in Philadelphia gathering people working at the interface of cellular and molecular biology with researchers in the more classical topics of chemoreception pathways and reflexes The aim was to join experts with different perspectives Along these lines some participants are engaged in the exploration of the intimate mechanisms of oxygen sensing and cellular responses with their work centered in a great number of preparations covering a broad spectrum from bacteria to chemoreceptor cells or to central nervous systems neurons

Neural Mechanisms of Cardiovascular Regulation Nae J. Dun, Benedito H. Machado, Paul M. Pilowsky, 2011-06-27 Neural Mechanisms of Cardiovascular Regulation responds to current questions about how neurons in the central and peripheral nervous systems regulate the cardiovascular system It includes a series of thoughtful reviews that are intended to provoke and illuminate the reader with the intention of revealing some of the ideas that current practitioners in the field of cardiovascular research are using to generate their current studies

The Peripheral Arterial Chemoreceptors M. J. Purves, 1975-06-19

The Neurobiology of the Cardiorespiratory System E. W. Taylor, 1987

**Morphofunctional and Neurochemical Aspects of the Mammalian Carotid Body** Nikolai E. Lazarov, Dimitrinka Y. Atanasova, 2023-11-09 This new volume of the book series Advances in Anatomy Embryology and Cell Biology provides a complete and exhaustive overview of the morphofunctional organization of the mammalian carotid body a polymodal chemosensory organ responsible for the maintenance of blood gas homeostasis The authors review the state of the art of the neurochemical anatomy of carotid body's cell populations with a special reference to their structural and neurochemical plasticity The essential role of this organ in the generation progression and maintenance of cardiorespiratory and metabolic diseases in humans and other mammals is presented Finally the book summarizes current knowledge on the stem cell niche in the mammalian carotid body and discusses its contribution to replacement cell therapy and other potential applications in translational research This book represents an essential reading for physiologists anatomists cell and developmental biologists as well as physicians veterinarians and biomedical researchers

**ECG Time Series Variability Analysis** Herbert F. Jelinek, David J. Cornforth, Ahsan H. Khandoker, 2017-09-11 Divided roughly into two sections this book provides a brief history of the development of ECG along with heart rate variability HRV algorithms and the engineering innovations over the last decade in this area It reviews clinical research presents an overview of the clinical field and the importance of heart rate variability in diagnosis The book then discusses the use of particular ECG and HRV

algorithms in the context of clinical applications      **Chemoreceptors and Chemoreceptor Reflexes** Helmut Acker, Andrzej Trzebski, Ronan G. O'Regan, 2012-12-06 This volume records the papers presented in Warsaw on the meeting of the International Society of Arterial Chemoreception LS A C organized as a Satellite Symposium of the XXXI International Congress of the Union of Physiological Sciences I U P S in Helsinki in July 1989 It is a 30 years old tradition to hold periodically international meetings on recent developments in chemoreceptor research and to exchange information between those of us interested in chemoreception The first meeting was organized by B B Lloyd in Oxford in 1959 Later on similar international meetings were held at irregular intervals In 1966 R W Torrance organized the second meeting again in Oxford In 1973 the third meeting was organized in Bristol U K by M J Purves In 1974 a fourth meeting combined with the XXVI I U P S Congress in Delhi was organized by A S Paintal in Srinagar Kashmir India In 1976 H Acker organized the fifth meeting in Dortmund F R G and in 1979 C Belmonte in Valla dolid Spain organized the sixth international meeting commemorating the 50th anniversary of Fernando de Castro publishing his classical work on the structure and possible function of the carotid body In 1982 the seventh meeting was due to D J Pallot in Leicester U K in 1985 the eighth one due to A J      Autonomic Failure Christopher J. Mathias, Sir Roger Bannister, 2013-06-13 This new edition makes diagnosis increasingly precise by fully evaluating the underlying anatomical and functional deficits and continues to provide practitioners from a variety of fields with a rational guide to aid in the recognition and management of autonomic disorders      Diving Seals & Meditating Yogis Robert Elsner, 2015-04-21 The comparative physiology of seemingly disparate organisms often serves as a surprising pathway to biological enlightenment How appropriate then that Robert Elsner sheds new light on the remarkable physiology of diving seals through comparison with members of our own species on quests toward enlightenment meditating yogis As Elsner reveals survival in extreme conditions such as those faced by seals is often not about running for cover or coming up for air but rather about working within the confines of an environment and suppressing normal bodily function Animals in this withdrawn state display reduced resting metabolic rates and are temporarily less dependent upon customary levels of oxygen For diving seals creatures especially well adapted to prolonged submergence in the ocean s cold depths such periods of rest lengthen dive endurance But while human divers share modest brief adjustments of suppressed metabolism with diving seals it is the practiced response achieved during deep meditation that is characterized by metabolic rates well below normal levels sometimes even approaching those of non exercising diving seals And the comparison does not end here hibernating animals infants during birth near drowning victims and clams at low tide all also display similarly reduced metabolisms By investigating these states and the regulatory functions that help maintain them across a range of species Elsner offers suggestive insight into the linked biology of survival and well being      **Arterial Chemoreception** Carlos Eyzaguirre, Sal J. Fidone, Robert S. Fitzgerald, Sukhamay Lahiri, Donald M. McDonald, 2012-12-06 This book entitled Arterial Chemoreception is an edited compilation of the oral communications and posters presented at the IXth International Symposium on Arterial

Chemoreceptors held in Park City Utah from August 29th to September 3rd 1988 The Symposium also saw the formal inauguration and first meeting of the International Society for Arterial Chemoreception ISAC In all there were 87 presentations by 108 scientists from 18 countries Authors making multiple presentations at Park City combined their results into single longer papers for this volume As a result this volume offers the reader 63 contributions of state of the art research in this important and exciting field Inasmuch as oxygen is the substrate sine qua non for the survival of all higher organisms it is quite understandable that considerable interest surrounds investigations into mechanisms responsible for detecting dwindling oxygen supplies in the organism This interest has intensified as the newer techniques of cell sub cell and molecular biology have become available As detectors of insufficient oxygen in the arterial blood the arterial chemoreceptors carotid and aortic bodies initiate many cardiopulmonary reflexes geared toward maintaining constant the delivery of oxygen to the tissues These chemoreceptors which also trigger secretions from the adrenal glands are located near the carotid sinus and in the arch of the aorta

**Central Regulation of Autonomic Functions** Arthur D. Loewy, K. Michael Spyer, 1990-06-07 This unique text relates the dramatic advances of modern neurobiology to our understanding of the structure and function of the autonomic nervous system providing a clear view of the central neuronal components involved in autonomic control The scope is wide ranging from anatomical pathways and molecular pharmacology to the perceptual qualities of autonomic sensation and their potential in modifying behavior Essential background information is reviewed and the most recent research discussed in a readable informative manner The text is richly illustrated The first six chapters offer a comprehensive review of the system's anatomy physiology and pharmacology emphasizing the organization and control of the autonomic preganglionic neurons and the complexity of central pathways Later chapters review the autonomic control of cardiovascular sexual urinary endocrine and other functions Written by an international group of distinguished scientists this work is a valuable resource for clinicians scientists and graduate students in the fields of anatomy physiology pharmacology and neuroscience

**Post-Genomic Perspectives in Modeling and Control of Breathing** Jean Champagnat, Monique Denavit-Saubie, Gilles Fortin, Arthur S. Foutz, Muriel Thoby-Brisson, 2010-06-28 Post Genomic Perspectives in Modeling and Control of Breathing is comprised of the proceedings of the IXth Oxford Conference on Modeling and Control of Breathing held September 13-16 2003 in Paris France This publication is placed within the general framework of post genomic neurobiology pathology and the precise example of the rhythmic respiratory neural assembly being used to understand how genetic networks have been selected and conserved in the vertebrate brain Specific topics include ion channels and synapses responsible for respiratory rhythmogenesis and plasticity pre and post natal development of the respiratory rhythm chemosensory transduction and chemo afferent signalling These valuable insights open new avenues as to why the genetic codes underlying a vital function such as breathing have been selected conserved or optimized during evolution a major issue of post genomic biology This critical issue will be considered from both top down and bottom up integrative modeling

standpoints with a view to elucidating the functional genomics linking discrete molecules to the integrated system that regulates breathing      **Canadian Journal of Physiology and Pharmacology** ,2002-09      *Biology of Marine Mammals*  
John E. Reynolds,2013-08-06 Taking an integrated approach to the biology of marine carnivores cetaceans and sirenians  
twenty two prominent researchers compare marine mammals with one another and with terrestrial mammals providing a  
framework for fundamental biological and ecological concepts They describe functional morphology sensory systems  
energetics reproduction communication and cognition behavior distribution population biology and feeding ecology They also  
detail the physiological adaptations for such activities and processes as diving thermo regulation osmoregulation and  
orientation that enable marine mammals to exploit their aquatic environment      [Encyclopedia of Neuroscience, Volume 1](#)  
Larry R. Squire,2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on  
a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written  
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