

Advances in Experimental Medicine and Biology 753

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Arterial Chemoreception

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Arterial Chemoreception:

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 **Arterial Chemoreception** Colin A. Nurse, Constancio Gonzalez, Chris Peers, Nanduri Prabhakar, 2012-10-19 Arterial chemoreceptors are unique structures which continuously monitor changes in arterial blood oxygen carbon dioxide glucose and acid Alterations in these gases are almost instantaneously sensed by arterial chemoreceptors and relayed into a physiological response which restores blood homeostasis *Arterial Chemoreception* contains updated material regarding the physiology of the primary arterial chemoreceptor the carotid body Moreover this book also explores tantalizing evidence regarding the contribution of the aortic bodies chromaffin cells lung neuroepithelial bodies and brainstem areas involved in monitoring changes in blood gases Furthermore this collection includes data showing the critical importance of these chemoreceptors in the pathophysiology of human disease and possible therapeutic treatments This book is a required text for any researcher in the field of arterial chemoreception for years to come It is also a critical text for physicians searching for bench to bedside treatments for heart failure sleep apnea and pulmonary hypertension Frontiers in Arterial Chemoreception Patricio Zapata, Carlos Eyzaguirre, Robert W. Torrance, 2012-12-06 Proceedings of the XIIIth International Symposium held in Santiago Chile March 25 29 1996 *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 O₂ sensing in chemoreceptor cells **Arterial Chemoreceptors** Ronan G. O'Regan, Philip Nolan, Daniel S. McQueen, David J. Paterson, 2012-12-06 The International Society for Arterial Chemoreception ISAC was founded in August 1988 during the 9th International Symposium on Arterial

Chemoreception which was held at Park City Utah USA ISAC was established with the aim of providing a framework to support the increasing number of investigators from a wide variety of disciplines anatomists pathologists respiratory physiologists and clinicians high altitude physiologists biochemists biophysicists physiologists and pharmacologists who share a common interest in arterial chemoreception ISAC took over the co ordination of the international chemoreceptor meetings with the membership deciding the venue for forthcoming meetings During the Park City symposium Dublin was selected to host the 1993 meeting under the Presidency of Professor Ronan O'Regan The 12th International Meeting on Arterial Chemoreception which was held in Dublin in August 1993 was acclaimed as a great success by all those present The delegates not only shared in a wide ranging feast of chemoreceptor based science they had plenty of opportunity during the meeting for renewing acquaintances and establishing new friendships The location for the meeting at University College Dublin's modern Belfield campus helped to promote such interaction and the social programme was outstanding

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 *The Arterial Chemoreceptors* Yoshiaki Hayashida, Constancio Gonzalez, Hisatake Kondo, 2006-04-11 This book represents an updated review of the physiology of the carotid body chemoreceptors It contains results in the topics at the frontiers of future developments in O₂ sensing in chemoreceptor cells Additionally this volume provides data from studies carried out in other O₂ sensing tissues including pulmonary vasculature and erythropoietin producing cells It is a prime source of information and a guideline for arterial chemoreception researchers **Neurobiology and Cell Physiology of Chemoreception** P.G. Data, H. Acker, Sukhamay

Lahiri,2012-12-06 This volume records the papers presented in Chieti Italy at the 1991 meeting of the International Society for Arterial Chemoreception ISAC This was the eleventh of a series of assemblies held since 1959 This field of research which examines the critical function and mechanisms of O and pHIPCO sensitive cells in 2 2 the body is unique in that it encompasses diverse biological and medical areas The reader of this book will note chapters concerning modern techniques like in situ hybridization analysis of cell membrane channels and intracellular ion movements immunohistochemistry of peptides hormones and the corresponding receptors of chemoreceptor cells and systemic analysis of reflex pathways involving chemoreceptor cells and their meaning in health and disease This broad spectrum will appeal to readers interested in the chemoreceptor field as well as young scientists seeking a scientific field where not only structural analysis but also a sense for functional connections is required In recognition of the importance of the contribution of a new scientific generation to this field ISAC awarded the prestigious F de Castro C Heymans E Neil prize to A G6rlach a young scientist Also at this meeting the Ferdinando Data Foundation Award for helping scientists from non developed countries to pursue their interest in chemoreception was initiated ISAC held plenary lectures in honor of C Eyzaguirre and R Forster both of whom have contributed greatly to research in the chemoreceptor field

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

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1990 **Airway Chemoreceptors in Vertebrates**

Giacomo Zaccone,2019-04-23 This book provides a comprehensive and up to date account of the information available on the morphological physiological and evolutionary aspects of specialized cells distributed within the epithelia of the airways in the vertebrates A lot of work has been done on the cell and molecular biology of these cells which are regarded as as oxygen receptor neuroepithelial cells These chemoreceptors which were conserved throughout evolution have neuroendocrine functions carrying their signals to the central nervous system The chemoreceptor cells are sensors which

detect the signal changes in the external and internal environments and play a key role in the survival of various species. Studies addressed to the chemoreceptor cell systems in the airways are of great importance for investigating their response to changes in the oxygen and carbon dioxide concentrations in the environment since the future of the planet earth is being threatened by global warming and climate change. Praise for the book: This volume would be of special interest to researchers who are curious about the evolution of vertebrate respiratory control in general and the regulation of ventilation in nonmammalian vertebrates in particular. Wayne L. Silver, Wake Forest University in *The Quarterly Review of Biology* Volume 85 Number 2.

Oxygen Sensing Sukhamay Lahiri, Nanduri R. Prabhakar, Robert E. Forster II, 2006-03-06. Proceedings of the XIVth International Symposium on Arterial Chemoreception held June 24-28 1999 in Philadelphia, Pennsylvania. This volume containing the proceedings of the fourteenth biannual ISAC meeting presents a new departure from their traditional focus on arterial chemoreceptors and their functions in the expansion to include the study and discussion of oxygen sensing in other tissues and cells and the genes involved. Bringing together scientists from cellular and systemic boundaries of physiology working at the interface of cellular and molecular biology, this book containing new physiological and biochemical perspectives.

Developmental Neurobiology of Breathing Gabriel Haddad, 1991-06-28. This monograph provides a comprehensive basis for understanding the complex interactions that take place between synaptic input, cellular properties and the oscillatory output of a neural network especially in the maturing or developing nervous system. Emphasis is placed on drawing a parallel between

Chemoreceptors in Respiratory Control J. A. Ribeiro, 2012-12-06. List of Participants: 1. Hypoxia Induced Intermitochondrial Junctions in the Rabbit Carotid Body: An Ultrastructural and Experimental Study. A. VERNAL TALIB and A. BARETS. 11. Ultrastructural Studies of the Cat Carotid Body Perfused for Short Periods with Physiological Saline Solutions. R. G. O. REGAN, M. KENNEDY, D. COTTELL and S. FEELY. Morphological and Biochemical. 19. Characteristics of the Laryngeal Nerve paraganglia. A. DAHLQVIST, S. HELLSTROM, B. CARLSOON, J. M. PEGUIGNOT and S. DOMEIJ. 29. Central Terminations of Carotid Body Chemoreceptor Afferents. D. JORDAN, S. DONOGHUE, R. B. FELDER and K. M. SPYER. 39. Vascular Geometry of Arterial Chemoreceptors: Learning about the Carotid Body by Studying paraganglia of the Superior Laryngeal Nerve. D. M. McDONALD and A. M. HASKELL. Altered Function of Cat Carotid Body 50. Chemoreceptors in Prolonged Hyperoxia. S. LAHIRI, E. MULLIGAN, A. MORASHI, S. ADNRONIKOU and M. SHIRAHATA. 59. Glycolysis as a Link for Chemoreception. MARCO A. DELPIANO. Spectrophotometric Studies on Carotid 69. Body Tissue. H. ACKER, C. EYZAGUIRRE. ATP Content in the Cat Carotid Body 78 under Different Experimental Conditions: Support for the Metabolic Hypothesis. A. ONESO, L. ALFIERAZ and C. GONZALEZ. 91. pathways for Calcium Entry into Type I Cells: Significance for the Secretory Response. A. OBESO, S. FIDONE and C. GONZALEZ. Effects of Cyanide and Acetylcholine on 99. Extracellular K⁺ and Ca²⁺ Activities in the Cat Carotid Body. R. G. O. REGAN and H. ACKER. Application of the Chemiluminescent 108. Method to Carotid Body for Detecting Choline and Acetylcholine. ARCADI GUAL and JORDI HARSAL.

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Medicine (U.S.), First multi year cumulation covers six years 1965 70 *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 *Cumulated Index Medicus*, 1978 **Sleep and Breathing in Children** Carole Marcus, John M. Carroll, David Donnelly, Gerald M. Loughlin, 2008-02-19 Infants and children spend one to two thirds of their life asleep Despite this very little attention has been paid to understanding both normal sleep and sleep related abnormalities during child development This volume is devoted to breathing during sleep its changes with development from the fetus onwards and the pathophysiology of sleep r *Fundamentals of Sleep Technology* Nic Butkov, Teofilo L. Lee-Chiong, 2007 This text provides a thorough understanding of the use of polysomnography and other technologies in the evaluation and management of sleep disorders Coverage includes in depth reviews of the neurophysiology and cardiopulmonary aspects of sleep and the pathophysiology of sleep disorders Detailed sections on polysomnography include recording procedures identifying and scoring sleep stages and sleep related events and report generation Chapters discuss therapeutic interventions including positive airway pressure supplemental oxygen surgical and pharmacologic treatments and patient education A section focuses on pediatric sleep disorders and polysomnography Also included are chapters on establishing and managing a sleep center and accrediting a sleep program *Physiological and Pathological Responses to Hypoxia and High Altitude* Rodrigo Iturriaga, Rodrigo Del Rio, Jean-Paul R-Richalet, 2020-06-22 The appearance of photosynthetic organisms about 3 billion years ago increased the partial pressure of oxygen PO₂ in the atmosphere and enabled the evolution of organisms that use glucose and oxygen to produce ATP by oxidative phosphorylation Hypoxia is commonly defined as the reduced availability of oxygen in the tissues produced by different causes which include reduction of atmospheric PO₂ as in high altitude and secondary to pathological conditions such as sleep breathing and pulmonary disorders anemia and cardiovascular alterations leading to inadequate transport delivery and exchange of oxygen between capillaries and cells Nowadays it has been shown that hypoxia plays an important role in the genesis of several human

pathologies including cardiovascular renal myocardial and cerebral diseases in fetal young and adult life Several mechanisms have evolved to maintain oxygen homeostasis Certainly all cells respond and adapt to hypoxia but only a few of them can detect hypoxia and initiate a cascade of signals intended to produce a functional systemic response In mammals oxygen detection mechanisms have been extensively studied in erythropoietin producing cells chromaffin cells bulbar and cortical neurons pulmonary neuroepithelial cells smooth muscle cells of pulmonary arteries and chemoreceptor cells While the precise mechanism underpinning oxygen sensing is not completely known several molecular entities have been proposed as possible oxygen sensors i e Hem proteins ion channels NADPH oxidase mitochondrial cytochrome oxidase Remarkably cellular adaptation to hypoxia is mediated by the master oxygen sensitive transcription factor hypoxia inducible factor 1 which can induce up regulation of different genes to cope the cellular effects related to a decrease in oxygen levels Short term responses to hypoxia included mainly chemoreceptor mediated reflex ventilatory and hemodynamic adaptations to manage the low oxygen concentration while more prolonged exposures to hypoxia can elicit more sustained physiological responses including switch from aerobic to anaerobic metabolism vascularization and enhancement of blood O₂ carrying capacity The focus of this research topic is to provide an up to date vision on the current knowledge on oxygen sensing mechanism physiological responses to acute or chronic hypoxia and cellular tissue organ adaptations to hypoxic environment

Arterial Chemoreception Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Arterial Chemoreception**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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