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# Arterial Chemoreception

From Molecules to Systems

 Springer

# Arterial Chemoreception

**A. S. Paintal**



## **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 O<sub>2</sub> sensing in chemoreceptor cells

**Arterial Chemoreceptors** Estelle B. Gauda, Maria Emilia Monteiro, Nanduri Prabhakar, Christopher Wyatt, Harold D. Schultz, 2018-10-24 This volume contains reviews and brief research articles from participants attending the International

Society for Arterial Chemoreception meeting to be held in the USA July 2017 Each article contains original data and represents up to date information concerning the carotid body and oxygen sensing in health and disease This volume is a required text for all researchers in the field of arterial chemoreception and will provide a valuable reference source for years to come

**Chemoreceptors and Chemoreceptor Reflexes** International Society of Arterial Chemoreception. Meeting,1990 Papers presented in Warsaw at the meeting of the International Society of Arterial Chemoreception organized as a satellite symposium of the 31st International Congress of the Union of Physiological Sciences held in Helsinki in July 1989 The papers are gathered in sections covering broad spectra of 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

**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 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1990 **Chemoreception Abstracts** ,1988 **Cumulated Index Medicus** ,1994 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **The Carotid Body Chemoreceptors** ,1997 **Morphology and Mechanisms of Chemoreceptors** A. S. Paintal,1976 **Chemoreceptors and Reflexes in Breathing** Sukhamay Lahiri,1989 This volume reviews basic knowledge of the sensory receptors and reflexes that control respiration and describes recent developments and new directions in research Thirty eight distinguished contributors discuss the vascular and comparative aspects of peripheral chemoreceptors sensory mechanisms of the carotid body oxygen sensing mechanisms peripheral chemoreceptor adaptations central effects of hypoxia airway mechanisms and central mechanisms and effectors The volume is published in the memory of Julius H Comroe who influenced and shaped medical education and research in the vital areas that are the focus of this volume Archives Internationales de Pharmacodynamie Et de Therapie ,1991 Summaries at end of articles □□□□□□□□□□□□□□□□ □□□□ □□ (Japan),1997 **Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku** Kokuritsu Kokkai Toshokan (Japan),1997 □□□□□□□□□□□□□□□□ ,1997 *Index of Conference Proceedings* British Library. Document Supply Centre,2000

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