

# Physiological Adaptations in Vertebrates

Respiration, Circulation, and Metabolism

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# Physiological Adaptations In Vertebrates Respiration Circulation And Metabolism

**J N Maina**



## **Physiological Adaptations In Vertebrates Respiration Circulation And Metabolism:**

**Physiological Adaptations in Vertebrates** Alan Hargens, 1991-10-31 This volume originates from a symposium held in Copenhagen in June 1989 to commemorate Kjell Johansen who died March 4 1987 The volume begins with a nonscientific but fascinating glimpse at Kjell followed by an overview of the kinds of physiology that interested him i e adaptational environment

**Biological Systems in Vertebrates, Vol. 1** J N Maina, 2019-04-23 Gives an account of the morphologies of vertebrate respiratory organs and attempts to explicate the basis of the common and different structural and functional designs and stratagems that have evolved for acquisition of molecular oxygen The book has been written with a broad readership in mind students of biology as well as experts in the disciplines of zoology physiology morphology biological microscopy biomedical engineering and ecology and those that work or may contemplate working on materials and aspects concerning respiration in whole organisms will find it useful Scientists in earth sciences with particular interest on the outcomes of past interactions between environmental factors the physical domain and evolution and adaptation the biological domain mechanisms that have set the composition patterning and anatomies of extant animal life will find the book of interest

**The Biology of Lungfishes** Jorden Morup Jorgensen, Jean Joss, 2016-04-19 The Biology of Lungfishes presents an up to date collection of reviews on some of the most important aspects of the life of lungfishes The book draws on contributions from well known experts with a long record of scientific work within their respective fields The general natural history of the three genera of lungfishes the fascinating fossil st

**Cardio-Respiratory Control in Vertebrates** Mogens L. Glass, Stephen C. Wood, 2009-07-24 Hopefully this book will be taken off of the shelf frequently to be studied carefully over many years More than 40 researchers were involved in this project which examines respiration circulation and metabolism from sh to the land vertebrates including human beings A breathable and stable atmosphere rst appeared about 500 million years ago Oxygen levels are not stable in aquatic environments and exclusively water breathing sh must still cope with the ever changing levels of O<sub>2</sub> and with large temperature changes This is reflected in their sophisticated countercurrent systems with high O<sub>2</sub> extraction and internal and external O<sub>2</sub> receptors 2.2 The conquest for the terrestrial environment took place in the late Devonian period 355-359 million years ago and recent discoveries portray the gradual transitional evolution of land vertebrates The oxygen rich and relatively stable atmospheric conditions implied that oxygen

sensing mechanisms were relatively simple and gain compared with acid base regulation Recently physiology has expanded into related fields such as biochemistry molecular biology morphology and anatomy In the light of the work in these fields the introduction of DNA based cladograms which can be used to evaluate the likelihood of land vertebrates and lung sh as a sister group could explain why their cardiorespiratory control systems are similar The diffusing capacity of a duck lung is 40 times higher than that of a toad or lung sh Certainly some animals have evolved to rich high performance levels

**Respiratory-Circulatory Interactions in Health and Disease** Steven M. Scharf, Michael R. Pinsky, Shelly

Magder,2001-04-27 This book describes the basic pathophysiologic and clinical importance of the reciprocal relationships and interactions between the respiratory and cardiovascular systems examining mechanical responses caused by lung volume and thoracic pressure Emphasizes humoral and neurophysical interactions occurring in diseases that lead to cardiorespiratory failure Covering pulmonary mechanics respiratory muscle function exercise physiology and control of venous return and cardiac output Respiratory Circulatory Interactions in Health and Disease focuses on mechanisms of heart failure in respiratory disease details the central interactions in sudden infant death syndrome considers the control of tissue metabolism the development of the sympathetic nervous system mathematical modeling and image analysis as a tool for investigating cardiocirculatory function examines the effects of muscle reflexes on respiration and circulation analyzes systemic inflammatory response and chronic obstructive lung disease discusses respiratory maneuvers to support failing circulation and ventilation addresses current controversies surrounding the balloon tipped catheter debates using inhaled nitrous oxide to treat circulatory failure and more Supplying a rational basis for understanding the ways in which the cardiovascular and respiratory systems interact in normal and abnormal situations Respiratory Circulatory Interactions in Health and Disease is a blue ribbon reference for cardiologists pulmonologists physiologists intensivists cardiothoracic surgeons anesthesiologists asthmatoologists health care practitioners interested in chest pulmonary and thoracic medicine and medical school students in these disciplines *Respiratory Physiology of Newborn Mammals* Jacopo P.

Mortola,2003-04-30 Respiratory Physiology of Newborn Mammals A Comparative Perspective emphasizes common trends among mammalian species in an effort to extract general rules about both the structure and the mechanisms of neonatal respiration Jacopo P Mortola outlines the key aspects of developmental respiratory physiology in the perinatal period Based on what is learned from interspecies comparisons Mortola addresses the question of how pulmonary ventilation fulfills the metabolic requirements of the newborn infant Exceptions to the rules illuminate adaptations to particular tasks or conditions Each chapter concludes with interspecies comparisons and clinical implications for the medically or zoologically oriented reader The combination of developmental and comparative perspectives offers an original contribution to the field of developmental physiology The book is divided into five chapters Gestation and Birth Metabolic and Ventilatory Requirements Mechanical Behavior of the Respiratory Pump Reflex Control of the Breathing Pattern and Changes in Temperature and Respiratory Gases It will be of value to researchers clinicians and students interested in developmental physiology comparative biology and zoology as well as neonatologists and pediatric pulmonologists who are interested in alternative perspectives on current clinical practice Fundamental Structural Aspects and Features in the Bioengineering of the Gas Exchangers: Comparative Perspectives

J.N. Maina,2012-12-06 The history of biology is replete with examples of how comparative biology helped clarify the meaning of structure and function in complex animals Indeed without the comparative approach to biology the birth of physiology would have been delayed Fishman 1979 Comparative morphologists are

challenged to discern the changes that have occurred in evolution and development of the forms and states of organisms as well as to explain the factors that compelled them e g Dullemeijer 1974 The main objective of this contribution is to present what I deem to be some of the fundamental structural aspects in the design of respiratory organs while debating and speculating on when how and why these states were founded My main thesis is that the modern gas exchangers are products of protracted processes that have entailed adaptation to specific environments and lifestyles Only those feasible designs that have proven adequately competent in meeting demands for molecular oxygen have been preserved Unfortunately August Krogh's Krogh 1941 and Pierre Dejours Dejours 1975 seminal works on the comparative physiology of the respiratory organs have not been paralleled by equally extensive and detailed morphological work Our approach has been to look into the limiting functional properties as regards the respiratory capacities of gas exchangers while finding out the specific structural adaptations that have evolved to meet the metabolic needs or to look into form and to discern how it limits function This has allowed a deduction of structure function correlation *Biology and Evolution of Crocodylians* Gordon Grigg, David Kirshner, 2015-01-15 *Biology and Evolution of Crocodylians* is a comprehensive review of current knowledge about the world's largest and most famous living reptiles Gordon Grigg's authoritative and accessible text and David Kirshner's stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles alligators caimans and gharials This book showcases the skills and capabilities that allow crocodylians to live how and where they do It covers the biology and ecology of the extant species conservation issues crocodylian human interaction and the evolutionary history of the group and includes a vast amount of new information 25 per cent of 1100 cited publications have appeared since 2007 Richly illustrated with more than 500 colour photographs and black and white illustrations this book will be a benchmark reference work for crocodylian biologists herpetologists and vertebrate biologists for years to come

*Bioengineering Aspects in the Design of Gas Exchangers* John N. Maina, 2011-06-24 This book encapsulates over three decades of the author's work on comparative functional respiratory morphology It provides insights into the mechanisms by which respiratory means and processes originated and advanced to their modern states Pertinent cross disciplinary details and facts have been integrated and reexamined in order to arrive at more robust answers to questions regarding the basis of the functional designs of gas exchangers The utilization of oxygen for energy production is an ancient process the development and progression of which were underpinned by dynamic events in the biological physical and chemical worlds Many books that have broached the subject of comparative functional respiratory biology have only described the form and function of the end product the gas exchanger they have scarcely delved into the factors and the conditions that motivated and steered the development from primeval to modern respiratory means and processes This book addresses and answers broad questions concerning the critical synthesis of multidisciplinary data and clarifies previously cryptic aspects of comparative respiratory biology **Surviving Hypoxia** Peter W. Hochachka, Peter L. Lutz, Thomas J. Sick, Myron

Rosenthal,2022-11-30 **Surviving Hypoxia Mechanisms of Control and Adaptation** is a synthesis of findings and thoughts concerning hypoxia The thermodynamics of hypoxia are discussed in detail including acid base balance and self pollution resulting from the accumulation of anaerobic end products The book focuses on descriptions and discussions of common facets contrasting solutions in a variety of physiological hypoxia defense strategies including those shown by plants invertebrates and vertebrates Special treatment is given to the distinctive problems that hypoxia presents to vulnerable organs such as the kidney liver and brain It also addresses pathological events in addition to protective mechanisms Clinical implications of basic research are examined in the book which provides new insights into underlying pathological processes occurring in hypoxic induced organ failure and indicates new paths for successful clinical intervention **Surviving Hypoxia Mechanisms of Control and Adaptation** is an excellent reference for all researchers interested in the physiological effects of hypoxia underlying pathological events and protective mechanisms

**Ichthyology Handbook** B.G. Kapoor,Bhavna Khanna,2004-03-11 In recent years progress in fish biology has advanced at an unprecedented rate and has led to many breakthroughs in the field This book provides a wealth of information on the strategies that fish adopt with respect to waters with markedly different physical and chemical characteristics It shows how their physiology behaviour and lifestyles are adapted to exploit particular niches and gives comprehensive insight into fish life under extreme conditions The readers are introduced to the ways in which fish exemplify many phenomena of general biological interest the existence of competitors chaos and predator prey interaction Fish pathology as well as the components of the immune system are addressed In this book original and at times controversial views are presented areas which have so far received inadequate attention are highlighted and avenues for further research are suggested

**Mechanisms of Systemic Regulation** Norbert Heisler,2012-12-06

**The Complete Dinosaur** M. K. Brett-Surman,Thomas R. Holtz,James O. Farlow,2018-11-01 A new edition of the illustrated compendium that is a gift to serious dinosaur enthusiasts Science What do we know about dinosaurs and how do we know it How did they grow move eat and reproduce Were they warm blooded or cold blooded How intelligent were they How are the various groups of dinosaurs related to each other and to other kinds of living and extinct vertebrates What can the study of dinosaurs tell us about the process of evolution And why did typical dinosaurs become extinct These questions and more are addressed in this new expanded edition of **The Complete Dinosaur** Written by leading experts on the fearfully great reptiles the book covers what we have learned about dinosaurs from the earliest discoveries to the most recent controversies Where scientific contention exists the editors have let the experts agree to disagree **The Complete Dinosaur** is a feast for serious dinosaur lovers from the enthusiastic amateur to the professional paleontologist Praise for the first edition An excellent encyclopedia that serves as a nice bridge between popular and scholarly dinosaur literature Library Journal starred review Stimulating armchair company for cold winter evenings Best of all the book treats dinosaurs as intellectual fun New Scientist Useful both as a reference and as a browse and enjoy compendium Natural History Copiously

illustrated and scrupulously up to date Publishers Weekly The amount of information in these pages is amazing This book should be on the shelves of dinosaur freaks as well as those who need to know more about the paleobiology of extinct animals It will be an invaluable library reference American Reference Books Annual **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1992 **Hypoxia** Robert C. Roach,Peter D. Wagner,Peter H. Hackett,2012-12-06 The International Hypoxia Symposium convenes biannually to bring together international experts from many fields to explore the state of the art in normal and pathophysiological responses to hypoxia Representatives from five continents and 32 countries joined together in February 2003 for four days in the dramatic mountains of Banff Alberta As editors of the Proceedings of the International Hypoxia Symposia we strive to maintain a 26 six year tradition of presenting a stimulating blend of clinical and basic science papers focused on hypoxia Topics covered in 2003 include hibernation and hypoxia hypoxia and fetal development and new advances in high altitude pathophysiology oxidative stress and membrane damage hypoxic regulation of blood flow heat shock proteins in hypoxia and future directions in hypoxia research In 2003 we also had the privilege of honoring John W Severinghaus as a friend colleague mentor and inspiration to many in the field Tom Hornbein s personal tribute to John Severinghaus is the first chapter in this volume followed by an entertaining update of the history of the discovery of oxygen written by John Severinghaus Ruling Reptiles Holly Noelle Woodward Ballard,James O. Farlow,2023-09-05 Modern crocodylians crocodiles alligators caiman Central and South America and gharials India have evolved over 250 million years from a fully terrestrial bipedal ancestor Along with birds crocodylians are the only living members of Archosauria the group including nonavian dinosaurs Ruling Reptiles features contributions on a broad range of topics surrounding crocodylian evolution and biology including osteology osteohistology developmental biology myology odontology functional morphology allometry body size estimation taphonomy parasitology ecology thermophysiology and ichnology It demonstrates how the wide variety of these studies can also provide crucial insights into dinosaurian biology and evolution Featuring the latest findings and interpretations Ruling Reptiles Crocodylian Biology and Archosaur Paleobiology is an essential resource for zoologists biologists and paleontologists The Gas Exchangers John N. Maina,2012-12-06 Amongst animals diversity of form and of environmental circumstances have given rise to a multitude of different adaptations subserving the relatively unified patterns of cellular metabolism Nowhere else is this state of affairs better exemplified than in the realm of respiration Jones 1972 The field of comparative respiratory biology is expanding almost exponentially With the ever improving analytical tools and methods of experimentation its scope is blossoming to fascinating horizons The innovativeness and productivity in the area continue to confound students as well as specialists The increasing wealth of data makes it possible to broaden the information base and meaning fully synthesize rationalize reconcile redefine consolidate and offer empirical validation of some of the earlier anecdotal views and interpretations helping resolve the issues into adequately realistic and easily perceptible models Occasional reflections on the advances made as well as on the

yet unresolved problems help chart out new grounds formulate new concepts and stimulate inquiry Moreover timely assessments help minimize isolation among investigators averting costly duplication of effort This exposition focuses on the diversity of the design of the gas exchangers and gives a critical appraisal of the plausible or constrained the evolvement of respiration The factors that have motivated cause and effect relationship between the phylogenetic developmental and environmental factors conditions and states which at various thresholds and under certain backgrounds conspired in molding the gas exchangers is argued      Research Awards Index ,1980      Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1972      **Air-Breathing Fishes** Jeffrey B. Graham,1997-07-04 Air Breathing Fishes Evolution Diversity and Adaptation is unique in its coverage of the evolution of air breathing incongruously because it focuses exclusively on fish This important and fascinating book containing nine chapters that present the life history ecology and physiology of many air breathing fishes provides an exceptional overview of air breathing biology Each chapter provides a historical background details the present status of knowledge in the field and defines the questions needing attention in future research Thoroughly referenced containing more than 1 000 citations and well documented with figures and tables Air Breathing Fishes is comprehensive in its coverage and will certainly have wide appeal Researchers in vertebrate biology paleontology ichthyology vertebrate evolution natural history comparative physiology anatomy and many other fields will find something new and intriguing in Air Breathing Fishes Offers a complete overview of an important and immensely interesting area of research Provides a perspective of air breathing fish that spans 300 million years of vertebrate evolution Contains numerous illustrations as well as comprehensive charts Provides a synoptic treatment of all the known air breathing species with important data on their morphological and physiological adaptations



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