

The Respiratory System

Human Anatomy

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The Human Respiratory System - Cassie M. Lawton
2020-07-15

The human respiratory system is what makes people able to breathe. This detailed guide explains what the respiratory system is, how it works, and the key organs used in its processes. Fun fact boxes, vivid photographs and diagrams, and

accessible language paint a detailed picture of the respiratory system and highlight its importance for human life. Readers are also asked to think independently about life science through discussion questions based on the informative narrative.

Anatomy and Physiology -
Rumi Michael Leigh

2018-03-17

This book will help you understand, revise and have a good general knowledge and keywords of the human anatomy and physiology.

Human Anatomy and Physiology - Alexander P. Spence 1987

Cell - Tissues - Integumentary system - Skeletal system - Articulations - Muscular system - Nervous system - Neurons, synapses and receptors - Central nervous system - Peripheral nervous system - Autonomic nervous system - Endocrine system - Circulatory system - Heart - Respiratory system - Digestive system - Urinary and reproductive system - Pregnancy and embryonic development.

The Respiratory System -

Christine Taylor-Butler
2009-07-10

Explores the respiratory system, explaining why and how people breathe, how each organ works, and how certain diseases can influence respiration.

Human Anatomy and Physiology, Global Edition -

ELAINE N.. HOEHN MARIEB (KATJA N.) 2018-11-26

For the two-semester A&P course. Equipping learners with 21st-century skills to succeed in A&P and beyond Human Anatomy & Physiology, by best-selling authors Elaine Marieb and Katja Hoehn, motivates and supports learners at every level, from novice to expert, equipping them with 21st century skills to succeed in A&P and beyond. Each carefully paced chapter guides students in advancing from mastering A&P terminology to applying knowledge in clinical scenarios, to practicing the critical thinking and problem-solving skills required for entry to nursing, allied health, and exercise science programs. From the very first edition, Human Anatomy & Physiology has been recognized for its engaging, conversational writing style, easy-to-follow figures, and its unique clinical insights. The 11th Edition continues the authors' tradition of innovation, building upon what makes this the text used

by more schools than any other A&P title and addressing the most effective ways students learn. Unique chapter-opening roadmaps help students keep sight of "big picture" concepts for organizing information; memorable, familiar analogies describe and explain structures and processes clearly and simply; an expanded number of summary tables and Focus Figures help learners focus on important details and processes; and a greater variety and range of self-assessment questions help them actively learn and apply critical thinking skills. To help learners prepare for future careers in health care, Career Connection Videos and Homeostatic Imbalance discussions have been updated, and end-of-chapter Clinical Case Studies have been extensively reworked to include new NCLEX-Style questions. Mastering A&P is not included. Students, if Mastering A&P is a recommended/mandatory component of the course, please ask your instructor for

the correct ISBN. Mastering A&P should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. Reach every student by pairing this text with Mastering A&P Mastering(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools and a flexible platform, Mastering personalizes the learning experience and improves results for each student.

The Respiratory System -

John M. Shea 2012-01-01

Describes the various parts of the respiratory system and how they work, and discusses asthma, lung cancer and other lung diseases, and related topics.

Fundamentals of Toxicologic Pathology - Wanda M. Haschek 2009-11-23

Toxicologic pathology integrates toxicology and the disciplines within it (such as biochemistry, pharmacodynamics and risk

assessment) to pathology and its related disciplines (such as physiology, microbiology, immunology, and molecular biology). Fundamentals of Toxicologic Pathology Second Edition updates the information presented in the first edition, including five entirely new chapters addressing basic concepts in toxicologic pathology, along with color photomicrographs that show examples of specific toxicant-induced diseases in animals. The current edition also includes comparative information that will prove a valuable resource to practitioners, including diagnostic pathologists and toxicologists. 25% brand new information, fully revised throughout New chapters: Veterinary Diagnostic Toxicologic Pathology; Clinical Pathology; Nomenclature: Terminology for Morphologic Alterations; Techniques in Toxicologic Pathology New color photomicrographs detailing specific toxicant-induced diseases in animals Mechanistic information

integrated from both toxicology and pathology discussing basic mechanisms of toxic injury and morphologic expression at the subcellular, cellular, and tissue levels

Your Respiratory System -

Judith Jango-Cohen 2017-08-01

Audisee® eBooks with Audio combine professional narration and text highlighting for an

engaging read aloud experience! The respiratory

system is made up of the nose,

the throat, the lungs, and other parts. But what does the

respiratory system do? And how do its parts work together

to keep your body healthy? Explore the respiratory system

in this engaging and informative book.

The Respiratory System -

Britannica Educational

Publishing 2010-04-01

So automatic and mechanical is breathing for most of us that

we often fail to consider the complexities of respiration.

Engaging the lungs, airways, and more, the intake of oxygen

and release of carbon dioxide are only the most apparent

aspects of a much longer

routine. Although vulnerable to various infections and other disorders, the respiratory system by and large continues to function in order to sustain us. This book explores each element involved in this subconscious process and the factors that perpetuate human life.

The Lungs and Respiratory System

- Steve Parker 1997
Examines the different parts and functions of the lungs and respiratory system.

The Human Respiratory System - Clara Mihaela Ionescu
2013-08-19

The Human Respiratory System combines emerging ideas from biology and mathematics to show the reader how to produce models for the development of biomedical engineering applications associated with the lungs and airways. Mathematically mature but in its infancy as far as engineering uses are concerned, fractional calculus is the basis of the methods chosen for system analysis and modelling. This reflects two

decades' worth of conceptual development which is now suitable for bringing to bear in biomedical engineering. The text reveals the latest trends in modelling and identification of human respiratory parameters with a view to developing diagnosis and monitoring technologies. Of special interest is the notion of fractal structure which is indicative of the large-scale biological efficiency of the pulmonary system. The related idea of fractal dimension represents the adaptations in fractal structure caused by environmental factors, notably including disease. These basics are linked to model the dynamical patterns of breathing as a whole. The ideas presented in the book are validated using real data generated from healthy subjects and respiratory patients and rest on non-invasive measurement methods. The Human Respiratory System will be of interest to applied mathematicians studying the modelling of biological

systems, to clinicians with interests outside the traditional borders of medicine, and to engineers working with technologies of either direct medical significance or for mitigating changes in the respiratory system caused by, for example, high-altitude or deep-sea environments.

The Biology of the Avian Respiratory System - John N. Maina 2017-04-28

The central focus of this book is the avian respiratory system. The authors explain why the respiratory system of modern birds is built the way it is and works the way that it does. Birds have been and continue to attract particular interest to biologists. The more birds are studied, the more it is appreciated that the existence of human-kind on earth very much depends directly and indirectly on the existence of birds. Regarding the avian respiratory system, published works are scattered in biological journals of fields like physiology, behavior, anatomy/morphology and ecology while others appear in

as far afield as paleontology and geology. The contributors to this book are world-renowned experts in their various fields of study. Special attention is given to the evolution, the structure, the function and the development of the lung-air sac system. Readers will not only discover the origin of birds but will also learn how the respiratory system of theropod dinosaurs worked and may have transformed into the avian one. In addition, the work explores such aspects as swallowing mechanism in birds, the adaptations that have evolved for flight at extreme altitude and gas exchange in eggs. It is a highly informative and carefully presented work that provides cutting edge scientific insights for readers with an interest in the respiratory biology and the evolution of birds.

Introduction to Anatomy & Physiology Volume 2: Cardiovascular and Respiratory Systems - Dr. Tommy Mitchell 2016-06-01
Wonders of the Human Body,

Volume Two, covers both the cardiovascular and respiratory systems. From the level of the cell to the organs themselves, we will examine these systems in depth. Here you will learn: The incredible design of the human heart and how it is really “two pumps in one!” How blood moves through an incredible network of arteries and veins What “blood pressure” is and the marvelous systems that help regulate it How the respiratory system allows us to get the “bad air out “ and the “good air in” Along the way, we will see what happens when things go wrong. We will also suggest things to do to keep the heart and lungs healthy. Although the world insists that our bodies are merely the result of time and chance, as you examine the human body closely, you will see that it cannot be an accident. It can only be the product of a Master Designer.

Roxy & The Human Body -
Kimberly A. Stine 2018-01-07
Sometimes we feel sick? But what makes us sick? Where is

sickness located? Come join Roxy & Dr. Stine as Roxy ventures into the world of health and learns about the human body and some different diseases the human body endures. Don't forget to wear your scrubs, mask, and gloves! We must stay healthy!

The Facts on File Illustrated Guide to the Human Body -
TBD 2005

The Facts On File Illustrated Guide to the Human Body provides a wide-ranging, visual reference to the human body.

[Study Guide to Human Anatomy and Physiology 2](#) -
Michael T. Harrell 2012-09-01

Welcome everyone to your guide to Human Anatomy & Physiology 2! This text will cover endocrine system, blood, heart, arteries, veins, lymphatic system, respiratory system, digestive system, urinary system, water, electrolytes, acids, reproductive system and development. I have been teaching college level human anatomy and physiology for many years, as well as other courses. My other classes

taught have included: pathophysiology, biology, zoology, microbiology, and others. In this time I have seen thousands of students. I have learned through the years the best ways to learn the most information in the least amount of time. There are two ways to study, smart or hard. If you will follow my information and learn the key points of each chapter, you will make an excellent grade in your A&P class. In each chapter concentrate your efforts on learning the key terms. The key terms are the ones you are most likely to see on your exams. Learn to associate words and how to connect them. For example, anatomy is the study of the structure of the human body. Look at the key words in this sentence, anatomy and structure. Learn how to pick out these key terms and remember them, not the entire sentence or paragraph full of information. When given a paragraph, page or whatever; just memorize the key words and then learn how to associate them. Learn what

they have in common and be able to speak from one word to the next. This will be the best way to learn your anatomy text. I will make the assumption that anyone reading this book is taking human anatomy and physiology. You will still need your text, but more as a reference to pictures and such. This guide will give you the important information from the chapters, which will be what you are most likely to see on an exam. Sample questions will be included, which are also the most likely for you to see on an exam. Note also that this book is not a guide for A&P lab. An anatomy lab book is little more than a book with lots of pictures in it. That is what anatomy is, memorizing parts and pieces of the body. You simply look at the picture in your book and then learn those parts on a model. You may be looking at a skull, brain, kidney, etc., it is simple memorization. This book is more to help you with the lecture.

Laboratory Manual for Human Anatomy - Michael G.

Wood 2007-02

Key Benefit: This new four-color lab manual combines the highly praised artwork from Martini's Human Anatomy, Mike Wood's easy-to-follow writing style, and reader-focused features to make this the most reader-friendly Human Anatomy Lab Manual on the market. These features help readers to retain concepts and terms that they learned in class and then directly apply that knowledge to their work in the laboratory. This lab manual can be used with any human anatomy book available. **Key Topics:** Introduction to the Human Body, Use of the Microscope, The Cell and Cell Division, Tissues, The Integumentary System, Organization of the Skeletal System, The Axial Skeleton, The Appendicular Skeleton, Articulations, Organization of Skeletal Muscles, Axial Muscles, Appendicular Muscles, Organization of the Nervous System, The Spinal Cord and Spinal Nerves, The Brain and Cranial Nerves, General Senses, Special

Senses: Olfaction and Gustation, Special Senses: The Eye, Special Senses: The Ear, The Endocrine System, The Blood, The Heart, The Lymphatic System, The Respiratory System, The Digestive System, The Urinary System, The Reproductive System, Human Development, Surface Anatomy, Cat Nervous System, Cat Endocrine System, Cat Vascular System, Cat Lymphatic System, Cat Respiratory System, Cat Digestive System, Cat Urinary System, Cat Reproductive System **Market:** Intended for those interested in learning the basics of human anatomy

Blueprint for Health Your Respiratory System Chart -

Anonimo 2003

The Blueprint for Health series of charts illustrated by Kate Sweeney are designed to make human anatomy come alive for kids. Colorful, clear pictures help to explain concepts. Examples and activities make learning and understanding fun and easy. Your Respiratory System (from the Blueprint for Health charts series) is an ideal

tool for educating pediatric patients and school aged kids. This chart describes why we breathe and illustrates the respiratory system and the role of important organs such as the brain, nose, trachea, lungs, heart, and diaphragm. It shows what happens inside the lungs and the flow of air during the breathing process and shows smoke-damaged alveoli. The chart includes fun facts ("You take over 20,000 breaths a day!"), how to make a model of your lungs, and answers to questions like "Why do I yawn?" and "How do I laugh?" Bright colors, bold figures, and appealing, anatomically correct illustrations make learning enjoyable. made in USA Available in the following versions 20" x 26" heavy paper laminated with grommets at top corners ISBN 9781587797415 20" x 26" heavy paper ISBN 9781587797408 set of all 9 Blueprint for Health charts - laminated versions # KSSET9 **The Respiratory System** - 1978

Principles and Practice of Anesthesia for Thoracic Surgery

- Peter Slinger, MD, FRCPC 2011-07-12

Principles and Practice of Anesthesia for Thoracic Surgery will serve as an updated comprehensive review covering not only the recent advances, but also topics that haven't been covered in previously published texts: extracorporeal ventilatory support, new advances in chest imaging modalities, lung isolation with a difficult airway, pulmonary thrombo-endarterectomy, and chronic post-thoracotomy pain. Additionally, the book features clinical case discussions at the end of each clinical chapter as well as tables comprising detailed anesthetic management.

Human Body - Wonder House 2021

Why are you likely to cough if you talk while eating? Why do you feel relaxed on inhaling and exhaling slowly? This encyclopedia will answer these and more whys for you. Learning is made simpler with

well-labelled diagrams and an extensive glossary of difficult words. Bonus: The book comes loaded with Isnt It Amazing a section of fun facts to keep you glued for more.

Respiratory System, The -

Kay Manolis 2013-08-01

How do we breathe and why do we need oxygen? Your lungs work hard to keep oxygen flowing through your blood. This book explains how the respiratory system functions to take in the air we need to live.

Strange but True: Gross Anatomy - Timothy J. Bradley
2012-09-01

Discusses the different functions of the human body, explaining how such systems as the respiratory system, the nervous system, the circulatory system, the digestive system, and the five senses all work together to maintain health.

Human Anatomy Chart Pack - Scientific Publishing 2009-03
8 charts. Exploring general anatomy and systems of the human body. This series of 8 beautifully illustrated charts explores the basics of human anatomy. Ideal for students,

patient education and the informed consumer, this set is suitable for home, school library or doctors office. The charts, printed on heavy stock, are UV coated and suitable for erasable dry marker. This 8 chart pack includes: Internal Anatomy of the Human Body; The Musculoskeletal System; The Nervous System; The Respiratory system; The Digestive System; The Vascular System; The Eye; The Ear.

Basic Human Anatomy and Physiology - U. S. Army

2008-04-01

In addition to providing the most concise information for efficiently learning basic human anatomy and physiology, this text also provides guided memorization exercises with complete answer keys for self-testing. The United States Army is recognized internationally as the standard for complete, efficient and effective adult education. The Army has a tradition of pioneering training systems that then transition into the corporate civilian sector. This manual has been

continuously tested and updated to successfully educate every member of the modern United States Army Medical Department (AMEDD). The manuals and course materials combined in this book provide complete, easily understandable, and well-planned learning tools for both military and civilian students. Complete with exercises and answer keys for each lesson. This volume has been used by universities internationally as their foundational instructional textbook. It is essential for any life science field subject to government regulation. It is required material for many regulatory affairs and clinical trial professionals in the pharmaceutical, biotechnology, and medical device industry. Included Documents and Features: Basic Human Anatomy 1. Introduction to Basic Human Anatomy 2. Tissues of the Body 3. The Human Integumentary and Fascial Systems 4. The Human Skeletal System 5. The Human Muscular System 6. The Human Digestive System 7.

The Human Respiratory System and Breathing 8. The Human Urogenital Systems 9. The Human Cardiovascular and Lymphatic Systems 10. The Human Endocrine System 11. The Human Nervous System Basic Human Physiology 1. Introduction to Basic Human Physiology 2. Physiology of Cells and Miscellaneous Tissues 3. Envelopes of the Body 4. The Skeletal System 5. Physiology and Actions of Muscles 6. The Human Digestive System 7. The Human Respiratory System and Breathing 8. The Human Urinary System 9. The Human Reproductive (Genital) System 10. Cardiovascular and Other Circulatory Systems of the Human Body 11. The Human Endocrine System 12. The Human Nervous System 13. The Special Senses 14. Some Elementary Human Genetics
Anatomy & Physiology - 2016

The Respiratory System - Susan Whittlemore 2009
Describes how the respiratory system works and the types of diseases and how they affect

the body.

*Wonders of the Human Body
Vol 2: Cardiovascular &
Respiratory Systems* - Dr

Tommy Mitchell 2016-06-20

In Volume 2 of the Wonders of the Human Body series, Dr. Tommy Mitchell covers the intricate design of both the cardiovascular system, consisting of the blood, blood vessels, and heart, as well as the respiratory system that focuses on the transportation of oxygen through the body. From the level of the cells to the organs themselves, you will examine these systems in depth. In the Cardiovascular & Respiratory Systems, prepare to discover the incredible design of the human heart, including: The incredible design of the human heart and how it is really “two pumps in one!” How blood moves through an incredible network of arteries and veins What “blood pressure” is and the marvelous systems that help regulate it How the respiratory system allows us to get the “bad air out “ and the “good air in” Along the way, we will see

what happens when things go wrong. We will also suggest things to do to keep the heart and lungs healthy. Although the world insists that our bodies are merely the result of time and chance, as you examine the human body closely, you will see that it cannot be an accident. It can only be the product of a Master Designer.

*An Illustrated Adventure in
Human Anatomy* - 2002

Interesting way to learn about human anatomy. This illustrated book is designed for ages 8-12 and covers many of the major systems and structures of the body. The skeletal, muscular, digestive, and respiratory systems as well as the brain & nerves, heart & blood, eyes and ears are all illustrated with kid-friendly pictures and easy-to-understand descriptions and anatomically-correct terms. Games and activities, trivia, and fun facts are also included. The charming illustrations invite curiosity and make learning easy. Includes: -- Your Skeletal System -- Your

Muscular System -- Your
Nervous System -- Your
Circulatory System -- Your
Respiratory System -- Your
Digestive System -- Your Eyes --
Your Ears -- Your Taste and
Smell -- Glossary

Human Anatomy Lab Manual -
Malgosia Wilk-Blaszczak
2019-12-12

This is a lab manual for a college-level human anatomy course. Mastery of anatomy requires a fair amount of memorization and recall skills. The activities in this manual encourage students to engage with new vocabulary in many ways, including grouping key terms, matching terms to structures, recalling definitions, and written exercises. Most of the activities in this manual utilize anatomical models, and several dissections of animal tissues and histological examinations are also included. Each unit includes both pre- and post-lab questions and six lab exercises designed for a classroom where students move from station to station. The vocabulary terms used in each

unit are listed at the end of the manual and serve as a checklist for practicals.

[The Oxford Handbook of Evolutionary Medicine](#) - Martin Brüne 2019-01-31

Medicine is grounded in the natural sciences, among which biology stands out with regard to the understanding of human physiology and conditions that cause dysfunction. Ironically though, evolutionary biology is a relatively disregarded field. One reason for this omission is that evolution is deemed a slow process. Indeed, macroanatomical features of our species have changed very little in the last 300,000 years. A more detailed look, however, reveals that novel ecological contingencies, partly in relation to cultural evolution, have brought about subtle changes pertaining to metabolism and immunology, including adaptations to dietary innovations, as well as adaptations to the exposure to novel pathogens. Rapid pathogen evolution and evolution of cancer cells cause major problems for the immune

system to find adequate responses. In addition, many adaptations to past ecologies have turned into risk factors for somatic disease and psychological disorder in our modern worlds (i.e. mismatch), among which epidemics of autoimmune diseases, cardiovascular diseases, diabetes and obesity, as well as several forms of cancer stand out. In addition, depression, anxiety and other psychiatric conditions add to the list. The Oxford Handbook of Evolutionary Medicine is a compilation of cutting edge insights into the evolutionary history of ourselves as a species, and how and why our evolved design may convey vulnerability to disease. Written in a classic textbook style emphasising physiology and pathophysiology of all major organ systems, the Oxford Handbook of Evolutionary Medicine will be valuable for students as well as scholars in the fields of medicine, biology, anthropology and psychology.

Lungs - Bold Kids 2022-05

The lungs are vital for breathing. These tiny air sacs are located inside the chest and can cover an entire tennis court! The lungs are surrounded by ribs, which protect them and keep them from falling out. A muscle called the diaphragm lies below the lungs and helps them breathe in and out. A large number of the lungs are connected to the heart and the rest of the body, and a good working lung can help a person breathe easily and deeply.

Human Body Book | Introduction to the Respiratory System | Children's Anatomy & Physiology Edition - Baby Professor 2017-02-15

How do you breathe in? How do you breathe out? Let's explore the facts in this educational book. The book comes with facts and other amazing details that are highlighted with pictures. The use of pictures is a welcome addition to this book because children learn best if there's fun involved! Go ahead and grab a copy today!

The Respiratory System -

Krystyna Poray Goddu
2018-08-07

The human body is simply amazing. Organs keep it running. Bones keep it standing. And muscles let it play. Through hi/lo text and powerful infographics, discover how the human body works ... and learn a few gross facts too!

Ross & Wilson Anatomy and Physiology in Health and Illness E-Book - Anne Waugh
2018-07-12

The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of 'critical thinking' exercises as well as new animations, an audio-glossary, the unique

Body Spectrum© online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn't English. Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear, no nonsense writing style helps make learning easy
Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum© online colouring and self-test software, and helpful weblinks
Includes basic pathology and pathophysiology of important diseases and disorders
Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection

Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text, plus a glossary and an appendix of normal biological values. Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English All new illustration programme brings the book right up-to-date for today's student Helpful 'Spot Check' questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and/or life threatening diseases and disorders Review and Revise end-of-chapter exercises assist with reader understanding and recall Over 150 animations - many of them newly created - help clarify underlying scientific and physiological principles and make learning fun

The Respiratory System -

Christine Taylor-Butler 2008

A True Book explores the respiratory system, explaining why and how people breathe,

how each organ works, and how certain diseases can influence respiration. Reprint.

Behavioral and Psychological Approaches to Breathing Disorders - R. Ley
2013-06-29

We start life with a breath, and the process continues automatically for the rest of our lives. Because breathing continues on its own, without our awareness, it does not necessarily mean that it is always functioning for optimum mental and physical health.

The opposite is true often. The problem with breathing is that it seems so easy and natural that we rarely give it a second thought. We breathe: we inhale, we exhale. What could be simpler? But behind that simple act lies a process that affects us profoundly. It affects the way we think and feel, the quality of what we create, and how we function in our daily life. Breathing affects our psychological and physiological states, while our psychological states affect the pattern of our breathing. For example, when anxious, we tend to hold our

breath and speak at the end of inspiration in a high-pitched voice. Depressed people tend to sigh and speak at the end of expiration in a low-toned voice. A child having a temper tantrum holds his or her breath until blue in the face. Hyperventilation causes not only anxiety but also such a variety of symptoms that patients can go from one specialty department to another until a wise clinician spots the abnormal breathing pattern and the patient is successfully trained to shift from maladaptive to normal breathing behavior.

Anatomy & Physiology -

Lindsay Biga 2019-09-26

A version of the OpenStax text

Human Respiration -

Vladimir Kulish 2006

This title discusses the anatomy and physiology of human respiration, some of the newest macro- and microscopic models of the respiratory system, numerical simulation and computer visualization of gas transport phenomena, and applications of these models to medical diagnostics, treatment and safety.

Comparative Biology of the Normal Lung - Richard A.

Parent 2015-03-13

Comparative Biology of the Normal Lung, 2nd Edition, offers a rigorous and comprehensive reference for all those involved in pulmonary research. This fully updated work is divided into sections on anatomy and morphology, physiology, biochemistry, and immunological response. It continues to provide a unique comparative perspective on the mammalian lung. This edition includes several new chapters and expanded content, including aging and development of the normal lung, mechanical properties of the lung, genetic polymorphisms, the comparative effect of stress of pulmonary immune function, oxygen signaling in the mammalian lung and much more. By addressing scientific advances and critical issues in lung research, this 2nd edition is a timely and valuable work on comparative data for the interpretation of studies of animal models as compared to

the human lung. Edited and authored by experts in the field to provide an excellent and timely review of cross-species comparisons that will help you interpret and compare data from animal studies to human findings Incorporates lung anatomy and physiology, cell specific interactions and immunological responses to provide you with a single and unique multidisciplinary source

on the comparative biology of the normal lung Includes new and expanded content on neonatal and aged lungs, developmental processes, cell signaling, antioxidants, airway cells, safety pharmacology and much more Section IV on Physical and Immunological Defenses has been significantly updated with 9 new chapters and an increased focus on the pulmonary immunological system