

# Functional Anatomy And Histology Of The Lung

*The Respiratory System E-Book* Andrew Davies 2014-02-03 This is an integrated textbook on the respiratory system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a way appropriate for the early part of the medical course. There is a linked website providing self-assessment material ideal for examination preparation.

*Histology: The Big Picture* John Ash 2012-10-19 Get the BIG PICTURE of Histology - and zero-in on what you really need to know to ace the course and board exams! 400 FULL-COLOR ILLUSTRATIONS Medical Histology: The Big Picture is a different kind of study tool. With an emphasis on what you "need to know" versus "what's nice to know", and featuring more than 400 full-color illustrations and micrographs, it offers a focused, streamlined overview of human histology. You'll find a succinct, user-friendly presentation designed to make even the most complex concepts understandable in a short amount of time. With just right balance of information to give you the edge at exam time, this unique combination text and atlas features: An efficient, study-enhancing design consisting of text on the left-hand page and related illustrations on the right-hand page - allowing you to grasp individual principles, one concept at a time The inclusion of detail, often clinical in nature, that clarifies the link between the structural and functional applications of histology Review questions and answers at the end of each chapter A complete final exam at the end of the book Icons that indicate high-yield, clinically relevant concepts Key Structures highlighted when they first appear to indicate their importance More than 400 full-color illustrations and micrographs depicting essential histology Concise, easy-to-remember bulleted text

*Lung Development* Claude Gaultier 2013-05-27 Knowledge about the mechanisms of lung development has been growing rapidly, especially with regard to cellular and molecular aspects of growth and differentiation. This authoritative international volume reviews key aspects of lung development in health and disease by providing a comprehensive review of the complex series of cellular and molecular interactions required for lung development. It covers such topics as pulmonary hypoplasia, effects of malnutrition, and pulmonary angiogenesis. An indispensable reference for all those involved in studying or treating lung disease in neonates and children, the book offers a unique view of the development of this essential organ.

**Models of Lung Disease** Joan Gil 2019-10-17 This research-level reference provides a review of the morphological techniques that have become a primary method of anatomical study correlating structure and function in lung physiology and pathology. Detailing the evolution of anatomy as a research discipline, it explores general structural techn

**The Lung Air Sac System of Birds** Hans-Rainer Duncker 1971-01-01

*A Practical Guide to the Histology of the Mouse* Cheryl L. Scudamore 2014-02-10 A Practical Guide to the Histology of the Mouse provides a full-colour atlas of mouse histology. Mouse models of disease are used extensively in biomedical research with many hundreds of new models being generated each year. Complete phenotypic analysis of all of these models can benefit from histologic review of the tissues. This book is aimed at veterinary and medical pathologists who are unfamiliar with mouse tissues and scientists who wish to evaluate their own mouse models. It provides practical guidance on the collection, sampling and analysis of mouse tissue samples in order to maximize the information that can be gained from these tissues. As well as illustrating the normal microscopic anatomy of the mouse, the book also describes and explains the common anatomic variations, artefacts associated with tissue collection and background lesions to help the scientist to distinguish these changes from experimentally- induced lesions. This will be an essential bench-side companion for researchers and practitioners looking for an accessible and well-illustrated guide to mouse pathology. Written by experienced pathologists and specifically tailored to the

needs of scientists and histologists Full colour throughout Provides advice on sampling tissues, necropsy and recording data Includes common anatomic variations, background lesions and artefacts which will help non-experts understand whether histologic variations seen are part of the normal background or related to their experimental manipulation

*Back to Basics in Physiology* Juan Pablo Arroyo 2013-03-20 This original six chapter book will briefly review and integrate the basic concepts behind water distribution and movement in the body. This fills a knowledge gap that most medical and undergraduate physiology students acquire when these topics are studied separately. As of now, there is no textbook that fully integrates renal, cardiovascular and water physiology in a clear understandable manner. The book is intended primarily for medical students and undergraduate physiology students. Chapters include: 1) Water and its Distribution; 2) Water Dynamics; 3) Fluid Handling by the Heart and Blood Vessels; 4) Fluid Handling by the Kidneys; 5) Water and Oxygen Delivery; 6) Integration in the Response to Hemorrhage, Volume Depletion, and Water Redistribution. An easy-to-read, step by step explanation of how water is distributed, how it moves, how this aides in oxygen delivery and how this is regulated in the human body. Presents a complex and detailed topic in an original way that will allow students to understand more complex textbooks and explanations

*Functional Anatomy and Histology of the Lung* Chūzō Nagaishi 1972

*Practical Pulmonary Pathology: A Diagnostic Approach E-Book* Kevin O. Leslie 2017-10-27 Part of the in-depth and practical Pattern Recognition series, Practical Pulmonary Pathology, 3rd Edition, helps you accurately identify and interpret neoplastic and non-neoplastic diseases of the lungs by using a pattern-based approach. Leading diagnosticians in pulmonary pathology guide you from a histological pattern, through the appropriate work-up, around the pitfalls, and to the best diagnosis. Superb, full-color illustrations capture key pathological patterns for a full range of common and rare conditions, and a "visual index" at the beginning of the book directs you to the exact location of in-depth diagnostic guidance. A user-friendly design color-codes patterns to specific entities, and key points are summarized in tables, charts, and graphs so you can quickly and easily find what you are looking for. Sweeping content updates keep you at the forefront of recent findings regarding pulmonary hypertension, pediatric lung disease, and all major neoplastic and non-neoplastic diseases of the lung. A new chapter on Pulmonary Function Testing for Pathologists brings you up to date with relevant aspects of these key tests. Improved pattern call-outs are now linked directly within the chapter, reinforcing the patterns for more efficient and complete understanding.

**Respiratory Care Anatomy and Physiology** Will Beachey 2007-01-22 This is a Pageburst digital textbook; the product description may vary from the print textbook. In addition to teaching respiratory students the basic anatomy and physiology of the pulmonary, cardiovascular, and renal systems, this resource explains the physiological principles underlying common therapeutic, diagnostic and monitoring therapies and procedures. It focuses on applied physiology, covering anatomy to the extent that it relates to physiological functions. In-depth discussions explore key respiratory physiology subjects important to respiratory students. This book stresses clinical applications throughout with its thought-provoking learning objectives and Concept Questions, Clinical Focus scenarios, and realistic illustrations. Clinical Focus scenarios situate the subject matter in a patient care setting and are integrated throughout each chapter. Though provoking Concept Questions interspersed throughout the text invite students to reflect on their learning. Learning objectives and an annotated list of key terms appear at the beginning of each chapter, with key terms defined at their first mention in the text. Bulleted "Points to Remember" list at the end of each chapter helps readers review key "take home" points. The interdependence of the pulmonary, cardiovascular, and renal systems in oxygenation and acid-base regulation are explored in depth. The interpretation of physiological data is emphasized, including hemodynamic values, blood gases, respiratory gases, blood electrolytes, electrocardiograms, pulmonary function tests, and breathing mechanisms. The physiological basis for therapeutic, diagnostic, and monitoring procedures is made explicit. A new chapter on

Physiological Basis for Oxygenation and Lung Protective Strategies explains the ways in which normal physiology is affected by disease processes, and how specific respiratory techniques can be of benefit. A new chapter on Fetal and Newborn Cardiopulmonary Physiology explores these areas of fetal development and the normal transition to adult circulation and oxygenation, as well as the effects of prematurity on the lungs. A new chapter on Effects of Aging on the Cardiopulmonary System focuses on the effects of aging on the cardiopulmonary system and on response to exercise. New, separate chapters on Filtration, Urine Formation, and Fluid Regulation and Electrolyte and Acid-Base Regulation break down this difficult subject matter in manageable presentations. Offers increased coverage of cardiac enzymes and abnormalities in myocardial infarction and physiological rationale for current pharmacological interventions -not found in any other physiology textbook. Expanded coverage of asthma topics provides more information regarding abnormal airway physiology and autonomic nervous system anatomy and physiology in relation to asthma.

**Wheater's Functional Histology** Barbara Young 2006-03-31 This best-selling atlas contains over 900 images and illustrations to help you learn and review the microstructure of human tissues. The book starts with a section on general cell structure and replication. Basic tissue types are covered in the following section, and the third section presents the microstructures of each of the major body systems. The highest - quality color light micrographs and electron micrograph images are accompanied by concise text and captions which explain the appearance, function, and clinical significance of each image. The accompanying website lets you view all the images from the atlas with a "virtual microscope", allowing you to view the image at a variety of pre-set magnifications. Utilizes "virtual microscope" function on the website, allowing you to see images first in low-powered and then in high powered magnification. Incorporates new information on histology of bone marrow, male reproductive system, respiratory system, pancreas, blood, cartilage, muscle types, staining methods, and more. Uses Color coding at the side of each page to make it easier to access information quickly and efficiently. Includes access to [www.studentconsult.com](http://www.studentconsult.com), an interactive community center with a wealth of additional resources!

**Asthma Education** Ian Mitchell 2021-08-23 This book comprehensively presents all the necessary information health professionals need to become Certified Asthma Educators. Competent asthma educators must possess a number of skills: they must have appropriate and sound medical and pharmaceutical knowledge; be proficient and effective educators who can influence their patients' behaviors for the better; and, finally, they need the administrative and organizational skills needed to set up and run efficient clinics at their places of work. The book is divided into three sections to meet those needs: Asthma: The Fundamentals; The Role of Education; and, The Effective Asthma Educator. The first section covers clinical knowledge of asthma, with chapters including lung structure and function, clinical presentation of asthma, and environmental issues in asthma management. The second section delves into the role of educating patients and teaches readers how to best do that with an integrated approach between physician, educator, and patient. The third section looks further into educating techniques with a view of the learning process, considerations for instruction locations, and the role the educator plays overall. The final chapter in the book presents example cases for readers to assess the knowledge they have learned throughout. This second edition serves as both textbook and study guide for certification as well as a long-term reference publication. It has been fully updated from the previous edition with the latest treatment guidelines, medications, and disease monitoring methods. This is an ideal guide for asthma educators, those seeking NAECB certification, and any health professional involved with individuals who have asthma.

**Pulmonary Functional Imaging** Yoshiharu Ohno 2020-12-11 This book reviews the basics of pulmonary functional imaging using new CT and MR techniques and describes the clinical applications of these techniques in detail. The intention is to equip readers with a full understanding of pulmonary functional imaging that will allow optimal application of all relevant techniques in the assessment of a variety of diseases, including COPD, asthma, cystic fibrosis, pulmonary thromboembolism, pulmonary hypertension, lung cancer and pulmonary nodule. Pulmonary functional imaging has been promoted as a research and diagnostic tool that has the capability to overcome the limitations of morphological assessments as well as functional evaluation based on traditional nuclear medicine studies. The recent advances in CT and MRI and in medical image processing and analysis have given further impetus to pulmonary functional imaging and provide the basis for future expansion of its use in clinical applications. In documenting the utility of

state-of-the-art pulmonary functional imaging in diagnostic radiology and pulmonary medicine, this book will be of high value for chest radiologists, pulmonologists, pulmonary surgeons, and radiation technologists.

**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.

**Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research** Robert L. Maynard 2019-02-08 Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research presents the detailed systematic anatomy of the rat, with a focus on toxicological needs. Most large works dealing with the laboratory rat provide a chapter on anatomy, but fall far short of the detailed account in this book which also focuses on the needs of toxicologists and others who use the rat as a laboratory animal. The book includes detailed guides on dissection methods and the location of specific tissues in specific organ systems. Crucially, the book includes classic illustrations from Miss H. G. Q. Rowett, along with new color photo-micrographs. Written by two of the top authors in their fields, this book can be used as a reference guide and teaching aid for students and researchers in toxicology. In addition, veterinary/medical students, researchers who utilize animals in biomedical research, and researchers in zoology, comparative anatomy, physiology and pharmacology will find this book to be a great resource. Illustrated with over 100 black and white and color images to assist understanding Contains detailed descriptions and explanations to accompany all images, thus helping with self-study Designed for toxicologic research for people from diverse backgrounds, including biochemistry, pharmacology, physiology, immunology and general biomedical sciences

**Scott-Brown's Otorhinolaryngology, Head and Neck Surgery** Michael Gleeson 2008 This new edition has been fully updated by an international team of editors and contributors and is highly illustrated in color throughout. The majority of the chapters are evidence-based and each contains useful features including key points, best clinical practice guidelines, details of the search strategies used to prepare the material, and suggestions for future research.

**Physiologic Basis of Respiratory Disease** Qutayba Hamid 2005 Accompanying CD-ROM contains ... "the complete text and illustrations ... in fully searchable PDF files."--Page 4 of cover.

**Anatomy and Physiology** J. Gordon Betts 2013-04-25

**ERS Handbook of Respiratory Medicine** Paolo Palange 2019-09-01 The European Respiratory Society (ERS) Handbook of Respiratory Medicine, now in its third edition, is a concise, compact and easy-to-read guide to each of the key areas in respiratory medicine. Its 20 sections, written by clinicians and researchers at the forefront of the field, explain the structure and function of the respiratory system, its disorders and how to treat them. The Handbook is a must-have for anyone who intends to remain up to date in the field, and to have within arm's reach a reference that covers everything from the basics to the latest developments in respiratory medicine.

**Basic Physiology for Anaesthetists** David Chambers 2019-07-25 Easily understood, up-to-date and clinically relevant, this book provides junior anaesthetists with an essential physiology resource.

**Anatomy & Physiology** Lindsay Biga 2019-09-26 A version of the OpenStax text

**Color Atlas of Pulmonary Cytopathology** Sudha R. Kini 2012-12-06 Color Atlas of Pulmonary Cytopathology is the only text to include, under one cover, up-to-date information on every aspect of Respiratory Cytopathology. The atlas includes techniques of bronchoscopy, brochoalveolar lavage, and fine needle aspiration biopsy, a detailed section on cytopreparatory techniques, liberal use of images on histomorphology to complement cytology, emphasis on diagnostic pitfalls, a detailed section on cytopathology of non-neoplastic conditions, and much more. Abundantly illustrated with over 1300 color images, the atlas presents not only the usual cytohistologic patterns of various disease entities, but also

focuses on differential diagnostic problems and depicts the differentiating features.

**Pathology of Lung Disease** Helmut Popper 2016-12-22 This well-illustrated textbook covers the full range of lung and pleural diseases from the pathologic standpoint. Both diseases of adults and pediatric lung diseases are presented. The book will serve as an excellent guide to the diagnosis of these diseases, but in addition it explains the disease mechanisms and etiology. Genetics and molecular biology are also discussed whenever necessary for a full understanding. The author is an internationally recognized expert who runs courses on lung and pleural pathology attended by participants from all over the world. In compiling this book, he has drawn on more than 30 years' experience in the field.

**Color Atlas of Basic Histology** Irwin Berman 2003-02-03 This unique atlas includes over 475 full color photomicrographs while providing students with a readily accessible source of morphologic information for use in the identification of tissues and organs. Each photomicrograph is accompanied by explanatory captions that guide students to the key morphologic features that identify the function of the structures. The self-assessment section at the end of the book serves as a review tool for those structures that students traditionally have difficulty in identifying.

**Interventional Pulmonology** Felix J.F. Herth 2017-12-01

**Lung, Pleura, and Mediastinum** Liang-Che Tao 1988

**Lung Function** John E. Cotes 2020-05-11 The seventh edition of the most authoritative and comprehensive book published on lung function, now completely revised and restructured Lung function assessment is the central pillar of respiratory diagnosis. Most hospitals have lung function laboratories where patients are tested with a variety of physiological methods. The tests and techniques used are specialized and utilize the expertise of respiratory physicians, physiologists, and technicians. This new edition of the classic text on lung function is a theoretical textbook and practical manual in one that gives a comprehensive account of lung function and its assessment in healthy persons and those with all types of respiratory disorder, against a background of respiratory, exercise, and environmental physiology. It incorporates the technical and methodological recommendations for lung function testing of the American Thoracic Society and European Respiratory Society. Cotes' Lung Function, 7th Edition is filled with chapters covering respiratory surveys, respiratory muscles, neonatal assessment, exercise, sleep, high altitude, hyperbaria, the effects of cold and heat, respirable dusts, fumes and vapors, anesthesia, surgery, and respiratory rehabilitation. It also offers a compendium of lung function in selected individual diseases and is filled with more diagrams and illustrative cases than previous editions. The only text to cover lung function assessment from first principles including methodology, reference values, and interpretation Completely re-written in a contemporary style—includes user-friendly equations and more diagrams Covers the latest advances in the treatment of lung function, including a stronger clinical and practical bias and more on new techniques and equipment Keeps mathematical treatments to a minimum Cotes' Lung Function is an ideal guide for respiratory physicians and surgeons, staff of lung function laboratories, and others who have a professional interest in the function of the lungs at rest or on exercise and how it may be assessed. Physiologists, anthropologists, pediatricians, anesthetists, occupational physicians, explorers, epidemiologists, and respiratory nurses should also find the book useful.

**Dail and Hammar's Pulmonary Pathology** Joseph F. Tomashefski 2009-06-18 Dail and Hammar's Pulmonary Pathology has established itself as the definitive reference in the field. This third edition is now a two-volume, full color text and has been thoroughly updated to cover newly recognized entities and the latest advances in molecular diagnostic techniques. It is abundantly illustrated with more than 2,000 illustrations in total, 1,900 of which are in full color. This first volume focuses on Nonneoplastic lung diseases, and Volume II covers Neoplastic Lung Diseases. It is an outstanding contribution to pathology literature and a must-have for the library of every surgical and pulmonary pathologist.

**Airway Stenting in Interventional Radiology** Xinwei Han 2018-11-03 This book aims to provide comprehensive pictures of airway stenting technology in interventional radiology to clinical practitioners. The highlight of this book is that design concept and structure of stent are described in detail for readers to choose suitable stents for different airway diseases. The first part of the book introduces readers to airway foundation on basic ideas of trachea anatomy, common symptoms and imaging signs of respiratory system. The second part provides a broad overview of clinical application of interventional radiology in airway

diseases, while the third part presents detailed interventional treatment of common airway diseases with case studies alongside in-depth analysis for each technique with comprehensive pictures. For each airway disease, a brief introduction, diagnosis, stent design, treatment plan as well as internal stent interventional operation procedures are offered to the readers. With the illustrative figures, this book is a useful reference to interventional radiologists, pulmonologists, thoracic surgeons, professional clinical staff, and medical students.

**Fetal and Neonatal Lung Development** Alan H. Jobe 2016-04-18 Lung disease affects more than 600 million people worldwide. While some of these lung diseases have an obvious developmental component, there is growing appreciation that processes and pathways critical for normal lung development are also important for postnatal tissue homeostasis and are dysregulated in lung disease. This book provides an authoritative review of fetal and neonatal lung development and is designed to provide a diverse group of scientists, spanning the basic to clinical research spectrum, with the latest developments on the cellular and molecular mechanisms of normal lung development and injury-repair processes, and how they are dysregulated in disease. The book covers genetics, omics, and systems biology as well as new imaging techniques that are transforming studies of lung development. The reader will learn where the field of lung development has been, where it is presently, and where it is going in order to improve outcomes for patients with common and rare lung diseases.

**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.

**Practical Pulmonary Pathology** Kevin O. Leslie 2011 With an innovative approach, the new edition by Kevin O. Leslie, MD and Mark R. Wick, MD, provides comprehensive, practical guidance in the accurate identification and interpretation of neoplastic and non-neoplastic diseases of the lungs. Illustrated in full color throughout, this "one-stop" resource captures key morphologic patterns for a full range of common and rare conditions and assists in the interpretation of complex diagnostic puzzles.

**Spencer's Pathology of the Lung** Philip Hasleton 2013-01-17 Fully rewritten and updated for the cutting-edge sixth edition, Spencer's Pathology of the Lung follows in its predecessors' footsteps as the gold-standard textbook of pulmonary diseases. All recognized diseases of the lungs are discussed and illustrated with extensive, high-quality color images. Each chapter includes practical, clear and concise diagnostic features, including immunohistochemistry, molecular tests and differential diagnoses, while rare entities are discussed and illustrated in detail. This thoroughly reworked edition includes new classification schemes and the latest understanding of the pathophysiology and molecular aspects of a wide range of diseases. Non-neoplastic diseases are presented according to epidemiology, genetics, clinical manifestations, radiographic findings, pathology, cytology, laboratory findings, pathogenesis, differential diagnosis, prognosis and natural history. Neoplasms are discussed according to cell or origin with sections devoted to genetics, molecular findings and clinicopathologic correlations. Downloadable versions of all images are available on a CD-ROM packaged with the print book. Written and edited by leading experts in the field, this is an essential resource for practising and trainee pathologists.

**Textbook of Pulmonary Diseases** Gerald L. Baum 1994

**Non-neoplastic Pulmonary Pathology** Sanjay Mukhopadhyay 2000 This generously illustrated textbook is a simple guide to the pathologic diagnosis of 'medical' lung disease, written by an expert, subspecialty-trained pulmonary pathologist. General surgical pathologists and pathology residents will find it accessible and full of practical pearls that can be used in real-life situations. The algorithms in this book provide a glimpse into the thought process of a subspecialist. They start with an abnormal histologic finding, and take the reader step by step to the correct diagnosis. Unlike most pathology textbooks, diseases are grouped on the basis of pathologic findings rather than etiology, mirroring the actual practice of surgical pathology. Another novel feature of this book is that it provides actual examples of pathology reports for each disease.

Pathologists will find this book tremendously helpful when faced with difficult cases of interstitial lung disease or lung granulomas. It should be part of every surgical pathologist's library.

**How Tobacco Smoke Causes Disease** 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

**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.

Comparative Anatomy and Histology Piper M. Treuting 2012 1. Introduction -- 2. Phenotyping -- 3. Necropsy and histology -- 4. Mammary Gland -- 5. Skeletal System -- 6. Nose, sinus, pharynx and larynx -- 7. Oral cavity and teeth -- 8. Salivary glands -- 9. Respiratory -- 10. Cardiovascular -- 11. Upper GI -- 12. Lower GI -- 13. Liver and gallbladder -- 14. Pancreas -- 15. Endocrine System -- 16. Urinary System -- 17. Female Reproductive System -- 18. Male Reproductive System -- 19. Hematopoietic and Lymphoid Tissues -- 20. Nervous System -- 21. Special senses, eye -- 22. Special senses, ear -- 23. Skin and adnexa -- Index.

**Severe Asthma** Kian Fan Chung 2019-06-01 Severe asthma is a form of asthma that responds poorly to currently available medication, and its patients represent those with greatest unmet needs. In the last 10 years, substantial progress has been made in terms of understanding some of the mechanisms that drive severe asthma; there have also been concomitant advances in the recognition of specific molecular phenotypes. This ERS Monograph covers all aspects of severe asthma - epidemiology, diagnosis, mechanisms, treatment and management - but has a particular focus on recent understanding of mechanistic heterogeneity based on an analytic approach using various 'omics platforms applied to clinically well-defined asthma cohorts. How these advances have led to improved management targets is also emphasised. This book brings together the clinical and scientific expertise of those from around the world who are collaborating to solve the problem of severe asthma.

**Pulmonary Function Testing** David A. Kaminsky 2018-10-04 This book serves as a unique, comprehensive resource for physicians and scientists training in pulmonary medicine and learning about pulmonary function testing. Pulmonary function testing and the physiological principles that underlie it are often poorly understood by medical students, residents, fellows and graduate students training in the medical sciences. One reason is that students tend to get overwhelmed by the basic mathematical descriptions that explain the working of the respiratory system and the principles of pulmonary function

testing. Another reason is that too many approaches focus on the math without explaining the clinical relevance of these principles and the laboratory testing that enables us to measure the very lung function that these principles are describing. This book answers that need by providing a series of chapters that guide the reader in a natural order of learning about the respiratory system. In particular, after a general overview of the structure-function design of the lung and the history of pulmonary function testing, authors begin with the drive to breathe, and then follow the pathway of air as it is drawn into the lung, undergoes gas exchange, and is then exhaled back out again. Each chapter focuses on the key principles and corresponding pulmonary function tests that explain each step in this pathway. Each chapter is written by at least two experts, one with expertise in the underlying physiology, and the other with expertise in the clinical testing and application of pulmonary function testing in practice. Many figures and tables highlight key points, and multiple case studies in each section provide specific examples of the clinical application of each pulmonary function test. This is an ideal guide to pulmonary function tests for practicing pulmonologists, residents, fellows, and medical students.

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