

Read Book Anatomy And
Physiology Chapter 2 Study
Guide

Anatomy And Physiology
Chapter 2 Study Guide

This book provides a highly accessible introduction to anatomy and physiology. Written for students studying the subject

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for the first time, it covers the human body from the atomic and cellular levels through to all the major systems and includes chapters on blood, immunity and homeostasis. Logically presented, the chapters build on each other and are designed to develop the

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reader's knowledge and understanding of the human body. By the end of each chapter, the reader will understand and be able to explain how the structures and systems described are organised and contribute to the maintenance of health.

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Describing how illness and disease undermine the body's ability to maintain homeostasis, this text helps readers to predict and account for the consequences when this occurs. Complete with self-test questions, full colour illustrations

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and a comprehensive glossary, this book is an essential read for all nursing and healthcare students in both further and higher education.

Neuro-Otology: a volume in the Handbook of Clinical Neurology series, provides a comprehensive

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translational reference on the disorders of the peripheral and central vestibular system. The volume is aimed at serving clinical neurologists who wish to know the most current established information related to dizziness and disequilibrium

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from a clinical, yet scholarly, perspective. This handbook sets the new standard for comprehensive multi-authored textbooks in the field of neuro-otology. The volume is divided into three sections, including basic aspects, diagnostic and

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*therapeutic management, and
neuro-otologic disorders.*

*Internationally acclaimed chapter
authors represent a broad
spectrum of areas of expertise,
chosen for their ability to write
clearly and concisely with an eye
toward a clinical audience. The*

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Basic Aspects section is brief and covers the material in sufficient depth necessary for understanding later translational and clinical material. The Diagnostic and Therapeutic Management section covers all of the essential topics in the

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evaluation and treatment of patients with dizziness and disequilibrium. The section on Neuro-otologic Disorders is the largest portion of the volume and addresses every major diagnostic category in the field. Synthesizes widely dispersed information on

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*the anatomy and physiology of
neuro-otologic conditions into
one comprehensive resource
Features input from renowned
international authors in basic
science, otology, and
neuroscience Presents the latest
assessment of the techniques*

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needed to diagnose and treat patients with dizziness, vertigo, and imbalance Provides the reader with an updated, in-depth review of the clinically relevant science and the clinical approach to those disorders of the peripheral and central vestibular

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system

The Perception of Odors presents concisely and clearly some of the important aspects in the study of olfaction such as perception, human pheromones, and odor pollution. The book consists of 11 detailed chapters. Chapters 1

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and 2 serve as the introduction as it outlines the basic principles, historical development, and the anatomy and physiology of olfaction. A chapter on ""Psychophysics"" is included wherein it covers the history of the measurement of odors and

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developments in the psychophysics of smell. The following chapters deal mostly with areas of research such as odor masking, deodorization, adaptation, odor mixture, and memory. Chapter 9 tackles the relationship of smell, particularly

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the perception of odor, to other senses. The last two chapters discuss the possible future areas of research and problems in odor perception. This book is a valuable reference to students and researchers studying sensation and perception.

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Sleep and Neurologic Disease reviews how common neurologic illnesses, such as Parkinson's Disease and Alzheimer's dementia impact sleep. In addition, the book discusses how common primary sleep disorders influence neurologic diseases,

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such as the relationship between obstructive sleep apnea and stroke, as well as their association with various primary headache disorders and epilepsy syndromes. The utilization of sleep technology, such as polysomnography, multiple sleep

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latency testing, actigraphy, laboratory and CSF testing is also covered. The book is written for the practicing neurologist, sleep physician, neuroscientist, and epidemiologist studying sleep. Reviews how common neurological illnesses impact

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sleep and the impact sleep disorders have on neurologic disease Up-to-date, comprehensive overview written for practicing neurologists, sleep physicians, neuroscientists, and epidemiologists Includes informative discussions on sleep

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*physiology, circadian rhythms,
sleep and stroke, and treatment
options for neurologists*

*Structure and Function of
Mammals, Birds, Reptiles, and
Amphibians*

*Revival: Nasal Tumors in Animals
and Man Vol. I (1983)*

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*Physicochemical and
Environmental Plant Physiology
Medicine for an Ailing Planet
Clinical Anatomy and Physiology
of the Visual System*

*The structure, function, and
pathologies of the human
kidney -- simplified and*

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explained A Doody's Core Title for 2011! 4 STAR DOODY'S REVIEW! "This seventh edition of a concise, well written book on renal physiology continues the legacy of the book as a major contributor

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in the field....This well written book is an excellent review of renal function and is one of the best concise reviews of the topic."--Doody's Review Service Written in a concise, conversational

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style, this trusted text reviews the fundamental principles of renal physiology that are essential for an understanding of clinical medicine. Combining the latest research with a fully

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integrated teaching approach, Vander's Renal Physiology explains how the kidneys affect other body systems and how they in turn are affected by these systems. Filled with the learning tools you need to

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truly learn key concepts rather than merely memorize facts, Vander's will prove valuable to you at every stage of your studies or practice. Features: New Global case studies New An online physiology learning

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*center that offers
additional exam questions,
artwork, and graphs Offers
the best review of renal
physiology available for the
USMLE Step 1 Begins with the
basics and works up to
advanced principles Distills*

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the essence of renal processes and their regulation in a concise, integrated manner that focuses on the logic of renal processes Features learning aids such as flow charts, diagrams, key

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*concepts, clinical examples,
learning objectives, and
review questions with
answers and explanations
Explains the relationship
between blood pressure and
renal function Presents the
normal functions of the*

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kidney with clinical correlations to disease states Includes the most current research on the molecular and genetic principles underlying renal physiology

Auditory Physiology

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describes the functions of the ear and the auditory nervous system, using well-documented research work. This book explains the physiology of the ear, the general function of the auditory nervous system, and

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its anatomy. This text also discusses in detail the neurophysiological basis for discriminating frequency and time. This discrimination refers in particular to (1) the ability to distinguish two sounds on the basis of

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their frequencies when the two sounds are not presented at the same time; and (2) the ability to discriminate one spectral component in a complex sound that contains several spectral components. This book notes that for low

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frequencies, temporal analysis is more useful in processing complex sounds than the simple determination of energy in different frequency bands. Research shows that particular spatial patterns

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of response to different characteristic of complex sounds can exist, which are not feature detectors such as neurons specifically tuned to special and complex properties of a certain stimulus. This book can

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*prove beneficial for
physiologists,
neurobiologists,
neurophysiologists, general
medical practitioners, and
EENT specialists.*

*The authoritative reference
that continues to present a*

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*systematic analysis of the
scientific basis of
endodontology The third
edition of Essential
Endodontology: Prevention
and Treatment of Apical
Periodontitis has been
revised and updated to*

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include the most recent developments in the field, maintaining its position as the major scientific treatise of apical periodontitis. Making an often-complex subject more digestible, the book

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explores the scientific basis of endodontology, adopting a systematic analysis of the available clinical and laboratory evidence. Promoting apical periodontitis as a disease entity, the comprehensive

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third edition focuses on its biology and clinical features, enabling the reader to have a better understanding of its diagnosis, prevention and treatment. In addition to thorough updates and full

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colour illustrations throughout, a new chapter on regenerative endodontics has been added to this edition. Written with a focus on the scientific basis of endodontology Includes a new chapter on regenerative

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endodontics Presents the most current information and major developments in this fast-moving field Provides helpful learning outcomes in each chapter Contains full colour illustrations, enriching the text Features

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contributions from a noted panel of international experts, including new contributors from across the globe Regarded as a vital companion to the pursuit of excellence in postgraduate and specialist education,

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Essential Endodontology is an indispensable and accessible resource for practicing endodontists, postgraduate students of endodontology and those seeking professional certification in

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endodontology.

The first in-depth textbook of its kind, this resource deals solely with the comparative anatomy and physiology of exotic species - small mammals, reptiles, and birds. For these

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commonly encountered species, it highlights clinical considerations for veterinary treatment. The book is heavily illustrated with clear line diagrams, radiographs, and color illustrations, explaining

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clearly the functioning of exotic species. The first textbook to provide comprehensive coverage of the comparative anatomy and physiology of exotic species. Written specifically to give the

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veterinary practitioner a better understanding of the functioning of exotic species. Profusely illustrated with clear line diagrams, radiographs, and color plates. With 3 contributors

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Cushing's Disease

Anatomy and Physiology

Gaia

*Introduction to Anatomy and
Physiology for Healthcare
Students*

*Neurology of Sexual and
Bladder Disorders*

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Cushing's Disease: An Often Misdiagnosed and Not So Rare Disorder reviews the epidemiology of Cushing's, including statistics on the incidence and prevalence

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of this disease. There are discussions of the signs and symptoms and the most common co-morbidities, such as diabetes mellitus, hypertension,

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osteoporosis,
amenorrhea, and
infertility. Surgical,
medical, and
radiotherapeutic
treatments, including
indications, results,

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risks, and complications, are reviewed. Also featured is a chapter on the patient's perspective, coping with Cushing's, quality of life, and

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psychosomatic issues.
This book is essential
reading for the wide
range of physicians who
treat patients with
Cushing's disease
symptoms, as well as

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biomedical researchers who investigate the etiology and mechanisms of rare genetic diseases, in particular rare endocrine disorders. Reviews the

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basics of Cushing's
disease and its
interrelation with
hormones, the brain, and
bodily functions
Includes chapters on
diagnosis, surgical,

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medical, and
radiotherapeutic
treatments, and
variations in
presentation, including
cyclical disease
Presents the cognitive

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and emotional aspects of Cushing's and the long-term sequelae Offers an important resource for physicians who are accustomed to treating individual symptoms

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rather than a disease
complex Reviews
multidisciplinary
management, and post-
treatment management of
Cushing's, including
recommendations for

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Cushing's Centers of
Excellence

An indispensable and
fully comprehensive
textbook, this covers
the basic sciences in
ophthalmology and is the

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only book you need to
pass the FRCOphth Part 1
exam.

The Testis, Volume I:
Development, Anatomy,
and Physiology focuses
on the study of the

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testis. Particular concerns include embryology, morphology, physiology, cytology, and anatomy of this complex organ. Composed of contributions of

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authors that are divided into nine chapters, the book outlines the development of mammalian testis. Areas discussed include differentiation of the testis; genital

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glands and ducts; and postnatal development. The text highlights the relationship of this organ, along with the scrotum and epididymis, to the nervous system.

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The book discusses as well the supply of blood; secretion of fluid; and regulation of temperature of the testis. Concerns include testicular lymph and

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lymphatics; testicular fluid; and rete testis. The discussions proceed with an examination of the intertubular tissue of the testis. The selection ends with the

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discussions on the structure and functions of the testis. Noted are the presence of different cells and tissues that compose this organ and how these

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influence its functions.
The selection is a good
source of information
for readers interested
in studying the complex
structure and functions
of the testis.

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Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research presents the detailed systematic anatomy of the rat, with a focus on

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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

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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

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methods and the location of specific tissues in specific organ systems. Crucially, the book includes classic illustrations from Miss H. G. Q. Rowett, along

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with new color photomicrographs. Written by two of the top authors in their fields, this book can be used as a reference guide and teaching aid for

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students and researchers
in toxicology. In
addition,
veterinary/medical
students, researchers
who utilize animals in
biomedical research, and

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researchers in zoology,
comparative anatomy,
physiology and
pharmacology will find
this book to be a great
resource. Illustrated
with over 100 black and

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white and color images
to assist understanding
Contains detailed
descriptions and
explanations to
accompany all images,
thus helping with self-

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study Designed for
toxicologic research for
people from diverse
backgrounds, including
biochemistry,
pharmacology,
physiology, immunology

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and general biomedical
sciences

Skin and Bones

Sex Differences in

Physiology

Fish Pathology

Essentials of Anatomy

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and Physiology for
Nursing Practice
O₂ and CO₂ in the
Respiratory and
Cardiovascular Systems
**The neurology of sex and
bladder disorders**

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**requires specialized
knowledge and
represents a challenge
for clinical neurologists
focused on the
neurological condition.
Sex and bladder**

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disorders are often related to more general neurological disorders like Parkinson's disease and multiple sclerosis, and often the sex and bladder disorders are

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**passed to specialists in
urology. Neurology of
Sexual and Bladder
Disorders: Handbook of
Clinical Neurology is a
focused, yet
comprehensive overview**

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that provides complete tutorial reference to the science, diagnosis and treatment of sex and bladder disorders from a neurologic perspective. Comprehensive coverage

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**of the neurology of sex
and bladder disorders
Details the latest
techniques for the study,
diagnosis and treatment
of sex and bladder
dysfunction from a**

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**neurological perspective
A focused reference for
clinical practitioners and
neurology research
communities**

**Preceded by The eye /
John V. Forrester ... [et**

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al.]. 3rd ed. 2008.

This updated second edition brings together text, video, full-colour illustrations, interactive activities and more, to provide nursing students

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guide to understanding
the healthy functioning of
the human body.**

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require detailed
knowledge regarding the**

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**anatomy of the GI system
in order to understand
the disturbances caused
by diseases they
diagnose and treat.**

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leading names to present
a comprehensive
overview of the
anatomical and
physiological features of
the gastrointestinal tract.**

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excellent anatomical and
clinical figures
throughout, it will
provide succinct,
authoritative and didactic
anatomic and physiologic**

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information on all the key areas, including GI motility, hepatic structure, GI hormones, gastric secretion and absorption of nutrients. GI trainees will enjoy the

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written to the level they
will encounter during
their Board exams, and
the seasoned
gastroenterologist will
value it as a handy**

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**reference book and
refresher for re-
certification exams
Prevention and
Treatment of Apical
Periodontitis
The Biology of the**

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**Laboratory Rabbit
Advances in
Neurolaryngology
Auditory Physiology
The Perception of Odors**
This is a comprehensive and unique
text that details the latest research

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**on smell and taste disorders for use
by clinicians and scientists.**

**Biology and Physiology of
Freshwater Neotropical Fish is the
all-inclusive guide to fish species
prevalent in the neotropical realm. It
provides the most updated
systematics, classification,**

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anatomical, behavioral, genetic, and functioning systems information on freshwater neotropical fish species. This book begins by analyzing the differences in phylogeny, anatomy, and behaviour of neotropical fish. Systems such as cardiovascular, respiratory, renal, digestive,

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reproductive, muscular, and endocrine are described in detail. This book also looks at the effects of stress on fish immune systems, and how color and pigmentation play into physiology and species differentiation. Biology and Physiology of Freshwater

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Neotropical Fish is a must-have for fish biologists and zoologists. Students in zoology, ichthyology, and fish farming will also find this book useful for its coverage of some of the world's rarest and least-known fish species. Features chapters written by top neotropical

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fish researchers and specialists

**Discusses environmental effects on
neotropical fishes, including
climate change and pollution**

**Details the phylogenetic occurrence
of electroreceptors and electric
organs in fish**

The skin is the largest human organ

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system. Loss of skin integrity due to injury or illness results in a substantial physiologic imbalance and ultimately in severe disability or death. From burn victims to surgical scars and plastic surgery, the therapies resulting from skin tissue engineering and regenerative

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medicine are important to a broad spectrum of patients. Skin Tissue Engineering and Regenerative Medicine provides a translational link for biomedical researchers across fields to understand the inter-disciplinary approaches which expanded available therapies for

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patients and additional research collaboration. This work expands on the primary literature on the state of the art of cell therapies and biomaterials to review the most widely used surgical therapies for the specific clinical scenarios. Explores cellular and molecular

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processes of wound healing, scar formation, and dermal repair
Includes examples of animal models for wound healing and translation to the clinical world
Presents the current state of, and clinical opportunities for, extracellular matrices, natural

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**biomaterials, synthetic
biomaterials, biologic skin
substitutes, and adult and fetal
stem and skin cells for skin
regenerative therapies and wound
management Discusses new
innovative approaches for wound
healing including skin bioprinting**

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and directed cellular therapies
**The Science of Grapevines:
Anatomy and Physiology** is an
introduction to the physical
structure of the grapevine, its
various organs, their functions and
their interactions with the
environment. **Beginning with a brief**

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overview of the botanical classification (including an introduction to the concepts of species, cultivars, clones, and rootstocks), plant morphology and anatomy, and growth cycles of grapevines, The Science of Grapevines covers the basic

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concepts in growth and development, water relations, photosynthesis and respiration, mineral uptake and utilization, and carbon partitioning. These concepts are put to use to understand plant-environment interactions including canopy dynamics, yield formation,

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and fruit composition, and concludes with an introduction to stress physiology, including water stress (drought and flooding), nutrient deficiency and excess, extreme temperatures (heat and cold), and the impact and response to of other organisms. Based on the

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**author's years of teaching
grapevine anatomy as well as his
research experience with
grapevines and practical experience
growing grapes, this book provides
an important guide to
understanding the entire plant.
Chapter 7 broken into two chapters,**

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**now "Environmental Constraints
and Stress Physiology and Chapter
8 "Living with Other Organisms" to
better reflect specific concepts
Integration of new research results
including: Latest research on
implementing drip irrigation to
maximize sugar accumulation**

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within grapes Effect of drought stress on grapevine's hydraulic system and options for optimum plant maintenance in drought conditions The recently discovered plant hormone – strigolactones – and their contribution of apical dominance that has suddenly

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**outdated dogma on apical
dominance control Chapter
summaries added Key literature
references missed in the first
edition as well as references to
research completed since the 1e
publication will be added
Reptile Medicine and Surgery in**

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Clinical Practice

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**Anatomy and Histology of the
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Biomedical Research**

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Anatomy, Physiology, and

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Epidemiology

Human anatomy, Physiology
Chapter 1. An introduction
to the human body Chapter
2. The chemical level of
organisation Chapter 3.
The cellular level of

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organisation Chapter 4.

The tissue level of
organisation Chapter 5.

The integumentary system

Chapter 6. The skeletal
system: bone tissue

Chapter 7. The skeletal

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system: the axial skeleton
Chapter 8. The skeletal
system: the appendicular
skeleton Chapter 9. Joints
Chapter 10. Muscular
tissue Chapter 11. The
muscular system Chapter

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- 12. Nervous tissue Chapter
- 13. The spinal cord and spinal nerves Chapter 14. The brain and cranial nerves Chapter 15. The autonomic nervous system Chapter 16. Sensory,

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motor, and integrative systems Chapter 17. The special senses Chapter 18. The endocrine system Chapter 19. The cardiovascular system: the blood Chapter 20. The

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cardiovascular system: the heart Chapter 21. The cardiovascular system: blood vessels and haemodynamics Chapter 22. The lymphatic system and immunity Chapter 23. The

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respiratory system Chapter
24. The digestive system
Chapter 25. Metabolism and
nutrition Chapter 26. The
urinary system Chapter 27.
Fluid, electrolyte, and
acid - base homeostasis

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Chapter 28. The reproductive systems
Chapter 29. Development and inheritance.

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in a clinical setting is emphasized throughout, including guidance on the physical examination, diagnostic testing and imaging, treatment options, and anaesthetic

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and surgical techniques.
Practical quick-reference
guide—ideal for the busy,
first-opinion veterinary
practitioner Richly
illustrated in full colour
throughout Edited by a

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exotic animal
veterinarians Useful
reference for those
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certificates in exotic
animal medicine With

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the Respiratory and

Cardiovascular Systems

exploits the gap that

exists in current

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physiology books, tackling specific problems and evaluating their repercussions on systemic physiology. It is part of a group of books that seek to provide a bridge for

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the basic understanding of science and its direct translation to the clinical setting, with a final aim of helping readers further comprehend the basic science behind

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clinical observations. The book is interspersed with clinical correlates and key facts, as the authors believe that highlighting direct patient care issues leads to improved

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understanding and retention. Physiology students, including graduate and undergraduate students, nursing students, physician associate students, and

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medical students will find this to be a great reference tool as part of an introductory course, or as review material.

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physiology books, tackling
specific problems and
evaluating their
repercussions on systemic
physiology Provides a
bridge for the basic
understanding of science

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and its direct translation
to the clinical setting
Interspersed with clinical
correlates and key facts,
highlighting direct
patient care issues to
help improve understanding

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and retention Ideal
physiology reference for
physiology students,
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undergraduate students,
nursing students,
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students, and medical
students

Incorporating orthodox
medical theory and the
existing evidenced-base
for the use of acupuncture
therapy, Acupuncture for

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this area, or planning to do so. Simplifies complex information into easily accessible and understandable material
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from the perspectives of
both orthodox medicine and
TCM Explains the
underlying basis of
orthodox medical fertility
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aetiology of TCM syndromes
Provides detailed
information on how to take
a fertility medical
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(Matador, January 2013) and A Muscle Odyssey – history, evolution, embryology, anatomy, physiology, pathology of muscle and its roles in art and music (Matador, March 2013). Robert D. Cohen has divided Skin and Bone into separate sections for skin and bone, though they often overlap.

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Originally published: Clinical anatomy of the visual system / Lee Ann Remington; with a contribution by Eileen C. McGill.

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based on the growing
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relations, membrane channels, mechanisms of active transport, and the bioenergetics of chloroplasts and mitochondria. One-third of the figures are new or modified, over 190 new

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references are incorporated, the appendixes on constants and conversion factors have doubled the number of entries, and the solutions to problems are given for the first time. Many other changes have emanated from

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water vapor and carbon dioxide, water movement from soil to plant to atmosphere
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substrate in the scientific process. The collection describes normative biology, research utilization, and rabbit disease. These papers emphasize naturally occurring diseases which affect the value of the

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rabbit as a research tool. Some papers describe these effects and their impact for investigators engaged in laboratory experimental work on animal medicine. Other papers tackle the value of certain rabbit diseases as

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*models of considerable
interest in comparative
medicine. Several papers
discuss bacterial diseases,
viral diseases, protozoal
diseases, arthropod
parasites, helminth
parasites, neoplastic*

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*diseases, inherited
diseases, nutritional
diseases, metabolic,
traumatic, mycotic, and
miscellaneous diseases of
the rabbit. One paper
describes a number of
diseases that man can*

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acquire from domestic and laboratory rabbits. These include tularemia (which is endemic in wild rabbits and hares), plague (transmitted by fleas), listeriosis (rare in laboratory rabbit colonies), salmonellosis

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*(from rabbit feces), and
Pasteurella multocida
(common in laboratory and
domestic rabbits). The paper
notes that laboratory and
domestic rabbits are not a
major health hazard. The
compendium can benefit*

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veterinarians, the medically-oriented investigator, the biologist, the medical and chemical researcher, and others whose work involve laboratory animal care.

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is an all-encompassing
reference that details basic

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science research into sex differences in all physiological fields. It includes scientific discoveries concerning sex differences in cardiovascular, respiratory, renal, gastrointestinal, and

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