

Biology Isa 2015 Model Arteries

The book focuses on the lymphatic vascular system from a developmental biologist's point of view. It provides an overview on the many recent advances in understanding the development of lymphatic vessels, using advanced genetic models in conjunction with state of the art imaging. For each chapter a synopsis is provided, highlighting the main points in a concise manner. The book is intended for professors and researchers in vascular biology, angiogenesis research and developmental biology. It furthermore offers an excellent basis for entry level researchers and newcomers to this field, as well as for teachers, graduate students, advanced science and medical students.

This book is intended for general cardiologists and other physicians involved in the care of patients with chronic stable angina (CSA). The goal of this book is to update clinicians on recent data on the medical management of patients with CSA. Ischemic heart disease remains a major public health problem. Chronic stable angina is the initial manifestation of ischemic heart disease in approximately one half of patients. Stable coronary artery disease is generally characterized by episodes of reversible myocardial demand/supply mismatch, related to ischaemia or hypoxia, which are usually inducible by exercise, emotion or other stress and reproducible—but, which may also be occurring spontaneously. Such episodes of ischaemia/hypoxia are commonly associated with transient chest discomfort (angina pectoris). The aim of the management of CSA is to reduce symptoms and improve prognosis. The management of these patients encompasses lifestyle modification, control of coronary artery disease risk factors, evidence-based pharmacological therapy and patient education. All patients with stable angina should be offered optimal medical treatment, defined as one or two anti-anginal drugs as necessary, plus drugs for secondary prevention of cardiovascular disease. Regarding the role of revascularization, randomised trials provide compelling evidence that myocardial revascularisation by coronary artery bypass grafting or by percutaneous coronary intervention improves symptoms of angina relative to continued medical treatment.

Plants provide a source of survival for all life on this planet. They are able to capture solar energy and convert it into food, feed, wood and medicines. Though sessile in nature, over many millions of years, plants have diversified and evolved from lower to higher life forms, spreading from sea level to mountains, and adapting to different ecozones. They have learnt to cope with challenging environmental conditions and various abiotic and biotic factors. Plants have also developed systems for monitoring the changing environment and efficiently utilizing resources for growth, flowering and reproduction, as well as mechanisms to counter the impact of pests and diseases and to communicate with other biological systems, like microbes and insects. This book discusses the “awareness” of plants and their ability to gather information through the perception of environmental cues, such as light, gravity, water, nutrients, touch

and sound, and stresses. It also explores plants' biochemical and molecular "computing" of the information to adjust their physiology and development to the advantage of the species. Further, it examines how plants communicate between their different organs and with other organisms, as well as the concepts of plant cognition, experience and memory, from both scientific and philosophical perspectives. Lastly, it addresses the phenomenon of death in plants. The epilogue presents an artist's view of the beauty of the natural world, especially plant "architecture". The book provides historical perspectives, comparisons with animal systems where needed, and general biochemical and molecular concepts and themes. Each chapter is self-contained, but also includes cross talk with other chapters to offer an integrated view of plant life and allow readers to appreciate and admire the functioning of plant life from within and without. The book is a tribute by the Editor to his students, colleagues and co-workers and to those in whose labs he has worked.

Monthly, with annual cumulation. Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors. Includes proceedings in all formats, i.e., books, reports, journal issues, etc. Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings, with accompanying category, permuted subject, sponsor, author/editor, meeting location, and corporate indexes. Contains abbreviations used in organizational and geographical names.

The American Joint Committee on Cancer's Cancer Staging Manual is used by physicians throughout the world to diagnose cancer and determine the extent to which cancer has progressed. All of the TNM staging information included in this Sixth Edition is uniform between the AJCC (American Joint Committee on Cancer) and the UICC (International Union Against Cancer). In addition to the information found in the Handbook, the Manual provides standardized data forms for each anatomic site, which can be utilized as permanent patient records, enabling clinicians and cancer research scientists to maintain consistency in evaluating the efficacy of diagnosis and treatment. The CD-ROM packaged with each Manual contains printable copies of each of the book's 45 Staging Forms. Covers the latest insights any fetal specialist needs and provides essential knowledge for professionals caring for women with high-risk pregnancies.

This book provides a practical and self-contained overview of the Gene Ontology (GO), the leading project to organize biological knowledge on genes and their products across genomic resources. Written for biologists and bioinformaticians, it covers the state-of-the-art of how GO annotations are made, how they are evaluated, and what sort of analyses can and cannot be done with the GO. In the spirit of the Methods in Molecular Biology book series, there is an emphasis throughout the chapters on providing practical guidance and troubleshooting advice. Authoritative and accessible, The Gene Ontology Handbook serves non-experts as well as seasoned GO users as a thorough guide to this powerful

knowledge system. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Data clustering, also known as cluster analysis, is an unsupervised process that divides a set of objects into homogeneous groups. Since the publication of the first edition of this monograph in 2007, development in the area has exploded, especially in clustering algorithms for big data and open-source software for cluster analysis. This second edition reflects these new developments, covers the basics of data clustering, includes a list of popular clustering algorithms, and provides program code that helps users implement clustering algorithms. *Data Clustering: Theory, Algorithms and Applications, Second Edition* will be of interest to researchers, practitioners, and data scientists as well as undergraduate and graduate students.

This volume explores the role free radicals and antioxidants within the development of vascular disease, examining fundamental research and translating preclinical knowledge to clinical trials. The expertly authored chapters describe the relationship of oxidative stress to atherosclerosis and the cardiovascular system, exploring its role in cardiac fibrosis, renovascular disease, hypertension, and regulation of blood pressure and cerebral vascular tone. The concluding chapter discusses the current state of clinical research, contextualizing clinical trials within the existing theoretical framework and analyzing attempts to preserve oxidant stress under various conditions. With its concise and authoritative analysis of pre-clinical research and clinical results, *Studies in Atherosclerosis* – part of the bestselling *Oxidative Stress in Basic Research and Clinical Practice* series – is essential for researchers and clinicians focusing in cardiology, nephrology, or oxidative stress.

Brought to you by the expert editor team from *Principles and Practice of Infectious Diseases*, this brand-new handbook provides a digestible summary of the 241 disease-oriented chapters contained within the parent text. Boasting an exceptionally templated design with relevant tables and illustrations, it distills the essential, up-to-date, practical information available in infectious disease. This high-yield manual-style reference will prove useful for a wide variety of practitioners looking for quick, practical, and current infectious disease information. Provides a digestible summary of the 241 disease-oriented chapters contained within *Principles and Practice of Infectious Diseases, 8th Edition* (ISBN: 978-1-4557-4801-3). Covers hot topics in infectious disease, such as Hepatitis B and C, Influenza, Measles, Papillomavirus, HIV, MERS, and *C. difficile*. Templated design includes relevant tables and illustrations. Ideal for the non-infectious disease specialist, including primary care physicians, physician assistants, nurse practitioners, students, residents, pharmacists, emergency physicians, and urgent care physicians.

Now optioned as a TV series for HBO, with executive producer George R. R. Martin! An award-winning literary author enters the world of magical realism with

her World Fantasy Award-winning novel of a remarkable woman in post-apocalyptic Africa. In a post-apocalyptic Africa, the world has changed in many ways; yet in one region genocide between tribes still bloodies the land. A woman who has survived the annihilation of her village and a terrible rape by an enemy general wanders into the desert, hoping to die. Instead, she gives birth to an angry baby girl with hair and skin the color of sand. Grippled by the certainty that her daughter is different—special—she names her Onyesonwu, which means "Who fears death?" in an ancient language. It doesn't take long for Onye to understand that she is physically and socially marked by the circumstances of her conception. She is Ewu—a child of rape who is expected to live a life of violence, a half-breed rejected by her community. But Onye is not the average Ewu. Even as a child, she manifests the beginnings of a remarkable and unique magic. As she grows, so do her abilities, and during an inadvertent visit to the spirit realm, she learns something terrifying: someone powerful is trying to kill her. Desperate to elude her would-be murderer and to understand her own nature, she embarks on a journey in which she grapples with nature, tradition, history, true love, and the spiritual mysteries of her culture, and ultimately learns why she was given the name she bears: Who Fears Death.

Pathophysiology of Cardiovascular Disease has been divided into four sections that focus on heart dysfunction and its associated characteristics (hypertrophy, cardiomyopathy and failure); vascular dysfunction and disease; ischemic heart disease; and novel therapeutic interventions. This volume is a compendium of different approaches to understanding cardiovascular disease and identifying the proteins, pathways and processes that impact it.

Translating Regenerative Medicine to the Clinic reviews the current methodological tools and experimental approaches used by leading translational researchers, discussing the uses of regenerative medicine for different disease treatment areas, including cardiovascular disease, muscle regeneration, and regeneration of the bone and skin. Pedagogically, the book concentrates on the latest knowledge, laboratory techniques, and experimental approaches used by translational research leaders in this field. It promotes cross-disciplinary communication between the sub-specialties of medicine, but remains unified in theme by emphasizing recent innovations, critical barriers to progress, the new tools that are being used to overcome them, and specific areas of research that require additional study to advance the field as a whole. Volumes in the series include Translating Gene Therapy to the Clinic, Translating Regenerative Medicine to the Clinic, Translating MicroRNAs to the Clinic, Translating Biomarkers to the Clinic, and Translating Epigenetics to the Clinic. Encompasses the latest innovations and tools being used to develop regenerative medicine in the lab and clinic Covers the latest knowledge, laboratory techniques, and experimental approaches used by translational research leaders in this field Contains extensive pedagogical updates aiming to improve the education of translational researchers in this field Provides a transdisciplinary approach that

supports cross-fertilization between different sub-specialties of medicine
This book constitutes the proceedings of the 6th International Workshop on Machine Learning in Medical Imaging, MLMI 2015, held in conjunction with MICCAI 2015, in Munich in October 2015. The 40 full papers presented in this volume were carefully reviewed and selected from 69 submissions. The workshop focuses on major trends and challenges in the area of machine learning in medical imaging and present works aimed to identify new cutting-edge techniques and their use in medical imaging.

A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

This book is a dedicated resource for those sitting the Part A of the MCEM (Membership of the College of Emergency Medicine) examination. It forms an essential revision guide for emergency trainees who need to acquire a broad understanding of the basic sciences, which underpin their approach to clinical problems in the emergency department. Common clinical scenarios are used to highlight the essential underlying basic science principles, providing a link between clinical management and a knowledge of the underlying anatomical, physiological, pathological and biochemical processes. Multiple choice questions with reasoned answers are used to confirm the candidates understanding and for self testing. Unlike other recent revision books which provide MCQ questions with extended answers, this book uses clinical cases linked to the most recent basic science aspects of the CEM syllabus to provide a book that not only serves as a useful revision resource for the Part A component of the MCEM examination, but also a unique way of understanding the processes underlying common clinical cases seen every day in the emergency department. This book is essential for trainees sitting the Part A of the MCEM exam and for clinicians and medical students who need to refresh their knowledge of basic sciences relevant to the management of clinical emergencies.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they

understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

This is a brand new edition of the leading reference work on histological techniques. It is an essential and invaluable resource suited to all those involved with histological preparations and applications, from the student to the highly experienced laboratory professional. This is a one stop reference book that the trainee histotechnologist can purchase at the beginning of his career and which will remain valuable to him as he increasingly gains experience in daily practice. Thoroughly revised and up-dated edition of the standard reference work in histotechnology that successfully integrates both theory and practice. Provides a single comprehensive resource on the tried and tested investigative techniques as well as coverage of the latest technical developments. Over 30 international expert contributors all of whom are involved in teaching, research and practice. Provides authoritative guidance on principles and practice of fixation and staining. Extensive use of summary tables, charts and boxes. Information is well set out and easy to retrieve. Six useful appendices included (SI units, solution preparation, specimen mounting, solubility). Provides practical information on measurements, preparation solutions that are used in daily laboratory practice. Color photomicrographs used extensively throughout. Better replicates the actual appearance of the specimen under the microscope. Brand new co-editors. New material on immunohistochemical and molecular diagnostic techniques. Enables user to keep abreast of latest advances in the field.

Liver Pathophysiology: Therapies and Antioxidants is a complete volume on morphology, physiology, biochemistry, molecular biology and treatment of liver diseases. It uses an integral approach towards the role of free radicals in the pathogenesis of hepatic injury, and how their deleterious effects may be abrogated by the use of antioxidants. Written by the most prominent authors in the field, this book will be of use to basic and clinical scientists and clinicians working in the biological sciences, especially those dedicated to the study and treatment of liver pathologies. Presents the most recent advances in hepatology, with a special focus on the role of oxidative stress in liver injury. Provides in vivo and in vitro models to study human liver pathology. Explains the beneficial effects of antioxidants on liver diseases. Contains the most recent and modern treatments of hepatic pathologies, including, but not limited to, stem cells

repopulation, gene therapy and liver transplantation.

If we lived in a liquid world, the concept of a "machine" would make no sense. Liquid life is metaphor and apparatus that discusses the consequences of thinking, working, and living through liquids. It is an irreducible, paradoxical, parallel, planetary-scale material condition, unevenly distributed spatially, but temporally continuous. It is what remains when logical explanations can no longer account for the experiences that we recognize as part of "being alive." Liquid life references a third-millennial understanding of matter that seeks to restore the agency of the liquid soul for an ecological era, which has been banished by reductionist, "brute" materialist discourses and mechanical models of life. Offering an alternative worldview of the living realm through a "new materialist" and "liquid" study of matter, it conjures forth examples of creatures that do not obey mechanistic concepts like predictability, efficiency, and rationality. With the advent of molecular science, an increasingly persuasive ontology of liquid technologies can be identified. Through the lens of lifelike dynamic droplets, the agency for these systems exists at the interfaces between different fields of matter/energy that respond to highly local effects, with no need for a central organizing system. Liquid Life seeks an alternative partnership between humanity and the natural world. It provokes a re-invention of the languages of the living realm to open up alternative spaces for exploration: Rolf Hughes' "angelology" of language explores the transformative invocations of prose poetry, and Simone Ferracina's graphical notations help shape our concepts of metabolism, upcycling, and designing with fluids. A conceptual and practical toolset for thinking and designing, Liquid Life reunites us with the irreducible "soul substance" of living things, which will neither be simply "solved," nor go away. Rachel Armstrong is Professor of Experimental Architecture at Newcastle University (UK), and has also been a Rising Waters II Fellow for the Robert Rauschenberg Foundation (April-May 2016), TWOTY futurist in 2015, Fellow of the British Interplanetary Society, and a Senior TED Fellow in 2010. She is also the coordinator of the Living Architecture project, an EU-funded project that establishes the principles for our buildings to share some of the properties of living things, e.g. metabolism, operating at the intersection of architecture, building construction, bio-energy and synthetic biology. She is also the author of *Vibrant Architecture* (De Gruyter, 2015), *Star Ark: A Living, Self-Sustaining Spaceship* (Springer, 2017), and *Soft Living Architecture: An Alternative View of Bio-informed Design Practice* (Bloomsbury, 2018). *The Dissection of Vertebrates* covers several vertebrates commonly used in providing a transitional sequence in morphology. With illustrations on seven vertebrates – lamprey, shark, perch, mudpuppy, frog, cat, pigeon – this is the first book of its kind to include high-quality, digitally rendered illustrations. This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators. It is organized by individual organism to facilitate classroom presentation. This illustrated, full-color primary dissection

manual is ideal for use by students or practitioners working with vertebrate anatomy. This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy. The result of this exceptional work offers the most comprehensive treatment than has ever before been available. * Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators * Expertly rendered award-winning illustrations accompany the detailed, clear dissection direction * Organized by individual organism to facilitate classroom presentation * Offers coverage of a wide range of vertebrates * Full-color, strong pedagogical aids in a convenient lay-flat presentation

Drawing on conversations with hundreds of women about their genitalia, the author presents a collection of performance pieces from her one-woman show of the same name.

Our responses to our thermal environment have a considerable effect on our performance and behavior, not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years these have been developed to the extent that detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is a focus on the principles and practice of human response, which incorporates psychology, physiology and environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the standard text for the design of environments for humans to live and work safely, comfortably and effectively, and for the design of materials which help the same people cope with their environments.

The formation of blood vessels is an essential aspect of embryogenesis in vertebrates. It is a central feature of numerous post-embryonic processes, including tissue and organ growth and regeneration. It is also part of the pathology of tumour formation and certain inflammatory conditions. In recent years, comprehension of the molecular genetics of blood vessel formation has progressed enormously and studies in vertebrate model systems, especially the mouse and the zebrafish, have identified a common set of molecules and processes that are conserved throughout vertebrate embryogenesis while, in addition, highlighting aspects that may differ between different animal groups. The discovery in the past decade of the crucial role of new blood vessel formation for the development of cancers has generated great interest in angiogenesis (the formation of new blood vessels from pre-existing ones), with its

major implications for potential cancer-control strategies. In addition, there are numerous situations where therapeutic treatments either require or would be assisted by vasculogenesis (the de novo formation of blood vessels). In particular, post-stroke therapies could include treatments that stimulate neovascularization of the affected tissues. The development of such treatments, however, requires thoroughly understanding the developmental properties of endothelial cells and the basic biology of blood vessel formation. While there are many books on angiogenesis, this unique book focuses on exactly this basic biology and explores blood vessel formation in connection with tissue development in a range of animal models. It includes detailed discussions of relevant cell biology, genetics and embryogenesis of blood vessel formation and presents insights into the cross-talk between developing blood vessels and other tissues. With contributions from vascular biologists, cell biologists and developmental biologists, a comprehensive and highly interdisciplinary volume is the outcome.

The second edition of *Neuro-Oncology: The Essentials* presents a comprehensive, highly readable introduction to the fundamental science and core clinical concepts for successfully managing common problems in neuro-oncology. Tightly focused chapters provide up-to-date systematic coverage of biology, imaging, surgery, radiation, chemotherapy, and biological concepts. The book addresses specific tumor types in separate chapters, providing detailed discussion of background, incidence, clinical features, management, surgical approaches, recurrence, and outcomes. Highlights: Pearls, pitfalls, controversies, and special considerations in textboxes -- ideal for rapidly reviewing key points More than 250 photographs and illustrations demonstrate important concepts This book is an invaluable reference for neurosurgeons, neurologists, oncologists, residents and fellows in these specialties, as well as for students.

The present book covers the basic principles of cardiovascular physiology, pathophysiology and advanced pharmacology with particular emphasis on cellular mechanisms of drug action. It provides an update on the progress made in several aspects of cardiovascular diseases so that it might kindle scientists and clinicians alike in furthering basic and translational research. In addition, the book is expected to fill imperative gaps in understanding and optimally treating cardiovascular disease. **EVERYTHING YOU NEED TO SCORE A PERFECT 5.** Equip yourself to ace the AP Biology Exam with The Princeton Review's comprehensive study guide—including thorough content reviews, targeted strategies for every question type, and 2 full-length practice tests with complete answer explanations. This eBook edition has been specially formatted for on-screen viewing with cross-linked questions, answers, and explanations. We don't have to tell you how tough AP Biology is—or how important a stellar score on the AP exam can be to your chances of getting into a top college of your choice. Written by Princeton Review experts who know their way around Bio, *Cracking the AP Biology Exam* will give you: **Techniques That Actually Work.** • Tried-and-true strategies to avoid traps and beat the test • Tips for pacing yourself and guessing logically • Essential tactics to help you work smarter, not harder **Everything You Need to Know for a High Score.** • Comprehensive content review for all test topics

- Up-to-date information on the 2015 AP Biology Exam
- Engaging activities to help you critically assess your progress Practice Your Way to Perfection.
- 2 full-length practice tests with detailed answer explanations
- Practice drills at the end of each content review chapter
- Lists of key terms at the end of each content review chapter

“Makes the science of plant processes accessible to home gardeners.” —The American Gardener

Why do container plants wilt even when they’ve been regularly watered? Why did the hydrangea that thrived last year never bloom this year? Plant physiology—the study of how living things function—can solve these and most other problems gardeners regularly encounter. In *How Plants Work*, horticulture expert Linda Chalker-Scott brings the stranger-than-fiction science of the plant world to vivid life. She uncovers the mysteries of how and why plants do the things they do, and arms you with fascinating knowledge that will change the way you garden.

As one of the most prominent diseases in our society, cardiovascular disease (CVD) requires dedicated analysis and investigation to reduce the increasing mortality rate worldwide. Scholars, biomedical engineers and medical practitioners will greatly benefit from the detailed information in this book, which gives a better understanding of the causes, diagnosis and treatment of CVD.

Medieval social/political theory from Christine de Pizan, France's first female professional writer.

Proceedings of the European Cooperation in the Field of Scientific and Technical Research (COST 825) Symposium on Mammary Gland Biology, held September 16-18, 1999, in Tours, France. It is difficult to overstate the evolutionary and functional significance of mammary tissue in biology. Substantial progress has been made by researchers in various disciplines, particularly over the last fifteen years, towards realizing the potential of this tissue to yield powerful experimental models for morphogenesis and tissue development; for cellular differentiation; for the biosynthesis and secretion of proteins, lipids, small molecules and inorganic salts; and for the coordination and regulation of these processes. More recently, the possibility of exploiting the secretory epithelial cells of mammary tissue as ‘cell factories’ has become a reality and the recombinant production by lactating animals of an increasing number of proteins, valuable both in the pharmaceutical and ‘nutraceutical’ fields, is in progress or under development. Also in this sphere of agricultural production, genetic as well as nutritional technologies are under investigation and exploitation to optimize milk composition for various end-uses - for instance in food process and manufacture. The possibilities of deriving health benefit from the bioactive properties of some of the minor constituents of milk are emerging to counter the highly-publicized negative health impact of excessive consumption of saturated animal fats. In human nutrition and medicine, the mammary gland is both a source of nutrition to the neonate and a potential health threat to the adult female - breast cancer remains the major single cause of female mortality in most developed countries. This volume provides a unique glimpse into our understanding, at the cutting edge of a variety of disciplines, of this versatile and extraordinary tissue, at the birth of the twenty-first century.

Main headings: I. Basic concepts of pulsatile arterial hemodynamics. - II.

Pathophysiological mechanisms. - III. Arterial stiffness, wave reflections, cardiovascular risk and end-organ damage. - IV. Clinical aspects of arterial stiffness and wave reflections. - V. Therapeutic aspects of arterial stiffness and wave reflections.

Biology and Evolution of Crocodylians is a comprehensive review of current knowledge about the world's largest and most famous living reptiles. Gordon Grigg's authoritative and accessible text and David Kirshner's stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles, alligators, caimans and gharials. This book showcases the skills and capabilities that allow crocodylians to live how and where they do. It covers the biology and ecology of the extant species, conservation issues, crocodylian–human interaction and the evolutionary history of the group, and includes a vast amount of new information; 25 per cent of 1100 cited publications have appeared since 2007. Richly illustrated with more than 500 colour photographs and black and white illustrations, this book will be a benchmark reference work for crocodylian biologists, herpetologists and vertebrate biologists for years to come.

This is the first systematic scholarly study of the Ottoman experience of plague during the Black Death pandemic and the centuries that followed. Using a wealth of archival and narrative sources, including medical treatises, hagiographies, and travelers' accounts, as well as recent scientific research, Nükhet Varlik demonstrates how plague interacted with the environmental, social, and political structures of the Ottoman Empire from the late medieval through the early modern era. The book argues that the empire's growth transformed the epidemiological patterns of plague by bringing diverse ecological zones into interaction and by intensifying the mobilities of exchange among both human and non-human agents. Varlik maintains that persistent plagues elicited new forms of cultural imagination and expression, as well as a new body of knowledge about the disease. In turn, this new consciousness sharpened the Ottoman administrative response to the plague, while contributing to the makings of an early modern state.

A comprehensive review of all aspects of hypertension in the elderly using the most current clinical data. Topics range from basic concepts, epidemiology and trials, and evaluation and management, to pharmacologic treatment, special populations, and adherence, all presented with an emphasis on the optimal management of patients. The authors examine in detail the mechanisms of hypertension in the elderly, the lifestyle trials and outcomes trials that were conducted in older persons, as well as the problems of clinical evaluation, secondary hypertension, adherence, and target organ damage. Extensive discussions of pharmacologic therapy detail the role of all the major drug classes. This book is a printed edition of the Special Issue "Food Proteins and Bioactive Peptides" that was published in Foods

"EACPR, European Association for Cardiovascular Prevention and Rehabilitation -- European Society of Cardiology."

Students and faculty alike have attested to the extraordinary success rate of the Lippincott's Illustrated Reviews -- the unparalleled review texts that clarify the essentials students need to know for the Boards through an easy-to-use outline

format. Now, this review series offers this updated Millennium Edition of Lippincott's Illustrated Review: Pharmacology, Second Edition that includes an updated and comprehensive insert containing information on important new drugs introduced since 1996. The index has been fully revised to reflect the additional information found within the text. Designed and edited by top educators, the book helps the student tie together the visual and cognitive elements of learning for superior recognition and recall. Many updated figures and tables, carefully crafted to complement and amplify the text, are completely integrated with the text. Infolink cross-references between the Pharmacology and Biochemistry volumes of the series, enabling students to interrelate the two disciplines.

Clinical practice related to sleep problems and sleep disorders has been expanding rapidly in the last few years, but scientific research is not keeping pace. Sleep apnea, insomnia, and restless legs syndrome are three examples of very common disorders for which we have little biological information. This new book cuts across a variety of medical disciplines such as neurology, pulmonology, pediatrics, internal medicine, psychiatry, psychology, otolaryngology, and nursing, as well as other medical practices with an interest in the management of sleep pathology. This area of research is not limited to very young and old patients—sleep disorders reach across all ages and ethnicities. Sleep Disorders and Sleep Deprivation presents a structured analysis that explores the following: Improving awareness among the general public and health care professionals. Increasing investment in interdisciplinary somnology and sleep medicine research training and mentoring activities. Validating and developing new and existing technologies for diagnosis and treatment. This book will be of interest to those looking to learn more about the enormous public health burden of sleep disorders and sleep deprivation and the strikingly limited capacity of the health care enterprise to identify and treat the majority of individuals suffering from sleep problems.

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