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when studying medicine healthcare and medical sciences disciplines learners are frequently required to visualise and understand complex three dimensional concepts consequently it is important that appropriate modalities are used to support their learning recently educators have turned to new and existing digital visualisation approaches when adapting to pandemic era challenges and when delivering blended post pandemic teaching this book focuses on a range of key themes in anatomical and clinically oriented education that can be enhanced through visual understanding of the spatial three dimensional arrangement and structure of human patients the opening chapters describe important digital adaptations for the dissemination of biomedical education to the public and to learners these topics are followed by reviews and reports of specific modern visualisation technologies for supporting anatomical biomedical sciences and clinical education examples include 3d printing 3d digital models virtual histology extended reality and digital simulation this book will be of interest to academics educators and communities aiming to modernise and innovate their teaching additionally this book will appeal to clinical teachers and allied healthcare professionals who are responsible for the training and development of colleagues and those wishing to communicate effectively to a range of audiences using multimodal digital approaches

human microanatomy is a comprehensive histology text that analyzes human structure and function from the subcellular to organ level of organization in addition to emphasizing medically relevant information each chapter considers developmental and evolutionary aspects of microanatomy while also using celebrity medical histories to help provide real world context for accompanying descriptions of normal histology the book is richly illustrated with over 1400 full color micrographs and drawings assembled into cohesive groupings with detailed captions to help elucidate key histological concepts text illustrations are further supplemented by hundreds of other light and electron micrographs available in a free digital atlas covering a broad spectrum of microanatomy each text chapter also includes a preview pictorial summary and self study quiz to highlight and review essential elements of histology by incorporating features like medical histories biological correlates and various study aids human microanatomy provides an appealing and informative treatment of histology for readers who are interested in the structural bases of cell tissue and organ functioning key features uses celebrity medical histories to help provide context for descriptions of normal histology supplements medically relevant information

with developmental and evolutionary correlates of microanatomy contains 1400 full color micrographs and drawings that illustrate a wide range of histological features offers free access to an ancillary online atlas with hundreds of additional light and electron micrographs includes helpful study aids such as chapter previews pictorial summaries and self study quizzes presents a novel and comprehensive account of the structure and function of human cells tissues and organs

designed to provide dental students with a detailed introduction to oral anatomy embryology and histology the new edition of this highly regarded textbook gives dental students the information they need in a lavishly illustrated resource emphasizing student friendly textbook features the 3rd edition has been rewritten to offer a specialized background that includes more relevant topics and new research in areas such as molecular biology confocal microscopy immunocytochemistry and immunohistochemistry while building on its excellent tradition of extensive high quality color photographs and illustrations a new paperback format makes the book more convenient and accessible for easy reference to key topics in the classroom or any setting spanish version of 2nd edition also available isbn 84 8174 139 6

review human histology is a well established textbook that combines conceptual drawings and color electronmicrographs with user friendly text helping to make histology both accessible and interesting this third edition has been thoroughly updated to include the latest advances in molecular biology extra clinically oriented text and even better images clinical scenarios and case based questions link the basic science to clinical practice highlighting the relevance of histology to current medical students other features include advanced concept boxes and a practical histology feature making it easy to dip into these subjects without being overwhelmed with material book jacket

each title in the new integrated series focuses on the core knowledge in a specific basic science discipline while linking that information to related concepts from other disciplines case based questions at the end of each chapter enable you to gauge your mastery of the material and a color coded format allows you to quickly find the specific guidance you need bonus student consult access included with the text allows you to conveniently access the book s content online clip content to

your handheld device link to content in other student consult titles and more these concise and user friendly references provide crucial guidance for the early years of medical training as well as for exam preparation

the availability of well defined genetic strains and the ability to create transgenic and knockout mice makes mouse models extremely valuable biomedical tools their suitability as an experimental system for cardiovascular research depends on the individual investigator s ability to manipulate the mice surgically many mouse models require microsurgical techniques which hitherto could not be performed without practical training this comprehensive handbook enables scientists to develop these models in their own laboratories a handbook of mouse models of cardiovascular disease is the first book to address pathology in mouse models of heart disease providing the reader with essential information on technical assays in artificially created models it includes background information on individual cardiovascular diseases describes detailed methods and materials used for establishing each mouse model discusses the problems that may appear in the experiments and provides examples of applications of the model a handbook of mouse models of cardiovascular disease describes mouse models of all important cardiovascular diseases including atherosclerosis atrial fibrillation and thrombosis features videos of key experimental procedures on the accompanying cd allowing researchers to learn the techniques by directly watching the whole operational procedure describes how to establish each experimental model with detailed protocols and tips on dealing with common operational problems highlights potential applications of each model in areas such as pathogenesis gene transfer therapy and pathophysiology this handbook is an invaluable resource for researchers in cardiovascular disease pathology physiology interested in the mechanism of vascular disorders and therapeutic approaches it is also relevant to clinicians seeking to understand the pathology of cardiovascular disease and the rationale for interventions and of interest to the pharmaceutical industry and all those involved in drug discovery development for cardiovascular disease

a visual guideline of histologic information essential for prospective physicians and other health care professionals it aids students and specialists studying slides

under a microscope and examining digitized images on a computer screen it facilitates recognition and interpretation of microscopic sections and provides relevant frames of reference for understanding basic histologic principles it helps clarify lectures supplements standard textbooks and provides a comprehensive review for course examinations it also assists students in preparing for national board and licensing examinations finally the book is intended to awaken readers to both the intricacies of the human body and the sheer beauty of its cells tissues and organ systems

get the most from your study time and experience a realistic usmle simulation these new additions to the rapid review series highly rated in the first aid rankings make it easy for you to master all of the basic science material covered on the usmle step 1 exam each title focuses on a particular basic science subject providing an at a glance outline format review of all the information you need to know a user friendly 2 color layout hi yield margin notes and key points make studying easy 100 high quality usmle style review questions inside each book allow you to practice for the usmle and include a full rationale that lets you know why every possible answer is right or wrong another 250 usmle style questions for each title are available at studentconsult com mirroring the look and feel of the actual exam and providing detailed feedback on which areas you may need to study more

a myriad of different scenarios await those entering the field of forensic pathology ranging from gunshot wounds to asphyxiation to explosives to death from addiction essential forensic pathology core studies and exercises helps prepare pathologists in training by establishing what they must know about the most common death scenes they will enco

this text provides students with concise coverage of cell and molecular biology and classic morphology illustrated throughout it includes helpful tables which summarise vital information for at a glance understanding and summary statements highlight key material in each chapter

introduces readers to the enlightening world of the modern light microscope there have been rapid advances in science and technology over the last decade and the light microscope together with the information that it gives about the image has changed too yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years this informative practical full colour guide fills the gap between specialised edited texts on detailed research topics and introductory books which concentrate on an optical approach to the light microscope it also provides comprehensive coverage of confocal microscopy which has revolutionised light microscopy over the last few decades written to help the reader understand set up and use the often very expensive and complex modern research light microscope properly understanding light microscopy keeps mathematical formulae to a minimum containing and explaining them within boxes in the text chapters provide in depth coverage of basic microscope optics and design ergonomics illumination diffraction and image formation reflected light polarised light and fluorescence microscopy deconvolution tfrf microscopy frap fret super resolution techniques biological and materials specimen preparation and more gives a didactic introduction to the light microscope encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility features full colour illustrations and workable practical protocols understanding light microscopy is intended for any scientist who wishes to understand and use a modern light microscope it is also ideal as supporting material for a formal taught course or for individual students to learn the key aspects of light microscopy through their own study

this atlas provides undergraduate medical students with an understanding of the histological structures of various tissues and functional correlation beginning with an introduction to histology microscopy and tissue preparation for microscopy the following chapters illustrate histological aspects of different tissues epithelial connective muscular and nervous in different systems of the body each chapter concludes with a table summarising the microscopic structure of organs in the relevant system and their function the final chapter presents sample histology slides to enhance learning highly illustrated with nearly 340 clinical images and tables the book also includes multiple choice and descriptive questions to assist revision key points provides undergraduate medical students with an understanding of histological

structures and functions of tissues covers all different tissue types in various systems of the body includes sample histology slides to enhance learning multiple choice and descriptive questions assist revision

this edition features new material to provide life scientists with the most up to date instructions for basic and advanced cell biological techniques including those at the interface between cell and molecular biology

chapter 1 overview of oral tissues chapter 2 general embryology chapter 3 development of face palate and tongue chapter 4 development of tooth chapter 5 enamel chapter 6 dentin chapter 7 pulp chapter 8 cementum chapter 9 periodontal ligament chapter 10 alveolar bone chapter 11 tooth eruption chapter 12 shedding chapter 13 oral mucous membrane chapter 14 salivary glands chapter 15 temporomandibular joint chapter 16 maxillary sinus chapter 17 lymphatics of orofacial region chapter 18 age changes in oral tissues chapter 19 stem cells chapter 20 evolution of jaws and teeth chapter 21 tissue processing for histological examination chapter 22 histochemistry of oral tissues appendix index

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