

information with illustrations enabling it to stand alone as a core text.

Introduces all of the essential cell biology and developmental biology background for the study of stem cells This book gives you all the important information you need to become a stem cell scientist. It covers the characterization of cells, genetic techniques for modifying cells and organisms, tissue culture technology, transplantation immunology, properties of pluripotent and tissue specific stem cells and, in particular, the relevant aspects of mammalian developmental biology. It dispels many misconceptions about stem cells—especially that they can be miracle cells that can cure all ills. The book puts emphasis on stem cell behavior in its biological context and on how to study it. Throughout, the approach is simple, direct, and logical, and evidence is given to support conclusions. Stem cell biology has huge potential for advancing therapies for many distressing and recalcitrant diseases, and its potential will be realized most quickly when as many people as possible have a good grounding in the science of stem cells. Content focused on the basic science underpinning stem cell biology Covers techniques of studying cell properties and cell lineage in vivo and in vitro Explains the basics of embryonic development and cell differentiation, as well as the essential cell biology processes of signaling, gene expression, and cell division Includes instructor resources such as further reading and figures for downloading Offers an online supplement summarizing current clinical applications of stem cells Written by a prominent leader in the field, *The Science of Stem Cells* is an ideal course book for advanced undergraduates or graduate students studying stem cell biology, regenerative medicine, tissue engineering, and other topics of science and biology.

This outline-format review of key concepts features high-yield full-color images and margin notes - PLUS more than 400 USMLE(TM)- style questions online! It's all the help you need to prepare efficiently and get the best score! - Visualize key pathologic concepts and conditions with over 1000 full-color images -- completely reviewed and updated for this new edition. - Take a timed or practice test, access rationales for why each answer is right or wrong. - Review all the information you need to know quickly and easily with a user-friendly, two-color outline format that includes High-Yield Margin Notes and Key Points. - Practice for the USMLE(TM) exam with the included access to online questions. - Pro?t from the guidance of Dr. Edward Goljan, a well-known author of medical review books, who reviewed and edited every question.

This concise introduction to pathology covers basic pathological mechanisms and offers a detailed review of systems pathology, making it a complete, effective review for today's readers. Hundreds of high-quality images—many new to this edition—illustrate common entities, and associated captions provide key pathological points. Reader-friendly text clarifies basic and complex information, helping you understand challenging concepts more easily. *Wheater's Pathology* is an excellent companion resource for users of *Wheater's Functional Histology, 6th Edition*, offering a comparison of normal histology with the pathological changes in disease Contains a new chapter, *Introduction to Pathology and Techniques*, that provides more background information on histology techniques, immunohistochemistry, molecular tests and digital pathology. Contains new, full-color illustrations that depict additional pathological entities and update classifications. Incorporates cutting-edge information on molecular pathology throughout. Includes quick-reference features such as keys to the lettering in images at the bottom of each page and fully revised clinical boxes with clinical-pathological correlations that explain the relevance of the pathological processes underlying common diseases and their complications.

Summarizes key points with chapter reviews at the end of each section. Evolve Instructor site with a downloadable image bank is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com> CD contains: 800 colour photographs, electron micrographs and diagrams.

Comparative Anatomy and Histology: A Mouse and Human Atlas is aimed at the new mouse investigator as well as medical and veterinary pathologists who need to expand their knowledge base into comparative anatomy and histology. It guides the reader through normal mouse anatomy and histology using direct comparison to the human. The side by side comparison of mouse and human tissues highlight the unique biology of the mouse, which has great impact on the validation of mouse models of human disease. Offers the first comprehensive source for comparing human and mouse anatomy and histology through over 600 full-color images, in one reference work Experts from both human and veterinary fields take readers through each organ system in a side-by-side comparative approach to anatomy and histology - human Netter anatomy images along with Netter-style mouse images Enables human and veterinary pathologists to examine tissue samples with greater accuracy and confidence Teaches biomedical researchers to examine the histologic changes in their mutant mice

Preceded by: *Wheater's functional histology / Barbara Young ... [et al.]. 5th ed. 2006.*

Essential Developmental Biology is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the third edition of this popular textbook has been expanded and updated In addition, an accompanying website provides instructional materials for both student and lecturer use, including animated developmental processes, a photo gallery of selected model organisms, and all artwork in downloadable format. With an emphasis throughout on the evidence underpinning the main conclusions, this book is an essential text for both introductory and more advanced courses in developmental biology. Shortlisted for the Society of Biology Book Awards 2013 in the Undergraduate Textbook category. Reviews of the Second Edition: "The second edition is a must have for anyone interested in development biology. New findings in hot fields such as stem cells, regeneration, and aging should make it attractive to a wide readership. Overall, the book is concise, well structured, and illustrated. I can highly recommend it." —Peter Gruss, Max Planck Society "I have always found Jonathan Slack's writing thoughtful, provocative, and engaging, and simply fun to read. This effort is no exception. Every student of developmental biology should experience his holistic yet analytical view of the subject." —Margaret Saha, College of William & Mary

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