



Comparative Anatomy and Histology: A Mouse and Human Atlas (Expert Consult)

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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

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Editorial Review

Review

"...we now have a comparative anatomy and histology book that will be an indispensable reference source for laboratory animal veterinarians and biomedical researchers...the reader will benefit from a healthy sprinkling of physiology that is found throughout the book...it has my strongest recommendation as a 'got to have it' book."--**Laboratory Animal Practitioner, March 2014** *"This volume is an excellent resource with illustrative histological and anatomical figures, comprehensive and comparative descriptions, and recommended references. It will be especially useful to investigations using mice as models of human disease as well as to medical and veterinary pathologists."*--**Anticancer Research, Volume 33, Issue no. 5, May 2013** *"Long overdue, the editors have assembled a vast array of knowledge, protocols, lab lore and practical advice in a concise, well illustrated, and easily accessible volume of practical comparative anatomy of the mouse and human. Students learning anatomy and histology at a practical level by the necessity of the mouse experiments in their laboratories will love this resource. I would recommend that any investigator asking a student, fellow or technician to do mouse necropsy and dissection should provide a copy of this book (and ideally further training in one of the nationally available or online courses in mouse pathology). Even for veterinary pathologists who are more familiar with comparative anatomy, the focus in their training is rarely on the mouse and never on the human. The strict inclusion of just these two species provides an important and practical simplification of critical issues in using the mouse to model human disease. This book is long overdue and much needed in any of the thousands of laboratories performing research with mice."*--**Alexander D. Borowsky, M.D., D.A.B.P., Associate Professor of Pathology and Laboratory Medicine, Center for Comparative Medicine, UC Davis, CA, USA** *"Given the importance of the laboratory mouse in safety assessment and risk assessment, this text on the comparative anatomy and histology of the mouse and human represents a unique and highly tangible contribution and essential tool for basic and clinical researchers, drug developers, and toxicologists. The authors of individual chapters provide excellent full color gross and photomicrographic depiction of mouse and human anatomy and histology accompanying a tersely written and comprehensive text dealing with the important anatomical and functional components of each organ system. The figures are clearly labeled with easy to understand legends. Tables detailing similarities and differences in cellular composition for each organ system are provided. Chapters are clearly written and organized for easy access to important comparative features of mouse and human anatomy. As an additional bonus, brief 'Need-to-Know' snippets of take-away summary points are provided throughout each chapter. Each chapter is followed by a recommended reading list. I highly recommend this book."*--**R. R. Maronpot, DVM, MS, MPH, Chief of Laboratory of Experimental Pathology, NIEHS, NIH. (Retired). Maronpot Consulting LLC, Raleigh, NC, USA** *"Comparative Anatomy and Histology: A Mouse and Human Atlas is an excellent resource for researchers using mouse models to study human disease. The "need to know" bullets in each chapter are useful for the generalist with extensive detail that will prove useful to those needing more in-depth detail of the cellular structure of mouse and human tissues. The color figures and anatomical drawings are of excellent quality. A very useful feature is contrasting the differences between humans and the mouse. This book will be an excellent resource to investigators in a variety of disciplines."*--**Gary A. Boorman, DVM, MS, PhD, Diplomate ACVP, Diplomate ACLAM, Diplomate ABT, Pathologist, Covance Laboratories, Inc., Chantilly, VA, USA** *"The editors and authors of this book have created a useful reference that can serve as a text for teaching the important comparative aspects of human and mouse histology and anatomy to medical and veterinary pathologists, as well as researchers using mouse models. Twenty-three chapters, organized by system and authored by a well-qualified stable of experts, provide a very comprehensive text, strengthened by large numbers of gross and microscopic images*

throughout the work. The juxtaposition of images and text for each species throughout the book provides a unique perspective that sets a new standard for comparative atlases. The extensive use of very well-rendered medical illustrations to supplement the high-quality microscopic and dissection photography will make this book a classic resource for pathologists, researchers and laboratory animal specialists throughout their careers.... The scope and completeness of this work makes an exhaustive review of every chapter or feature beyond the scope of any one reviewer, but the editors have done a yeoman's job in striving for both completeness and consistent presentation.... This is a book that many scientists from a wide range of disciplines will want to have on their shelves or computers long into the future."--**Lab Animal, August 2012, Volume 41, No. 8, Page 223** "The text is well written and divided into 23 chapters addressing each of the organ systems as well as basic techniques and approaches to evaluating mouse models. Each chapter begins with a general introduction to the organ system and its function(s) followed by detailed descriptions of the anatomy and histology. Each anatomic region within the organ system is subdivided and discussed both at the anatomic and histologic levels with diagrams, tables, and images. Although the target audience is experienced histologists and pathologists, the text occasionally digresses into details that seem more suited to a basic histology text (although distracting, it does not detract from the overall value). The image quality in the atlas is excellent, and there are many diagrams and tables summarizing comparative anatomy and histology for a given organ system. One feature I particularly liked were the 'Need-to-know' bullet points that highlighted specific differences between the mouse and human, which were located adjacent to the figures. In general, the bullet points clearly identified the species for which the points were intended. Occasionally, however, the species was not defined and had to be ascertained from the figures with which it was affiliated. Overall, this much-needed atlas is of high quality, both in its images and in its text, figures, and tables. I feel that this book is a great reference and would be an excellent addition to any mouse pathologist's library."--**Veterinary Pathology, 49(5), page 886**

From the Back Cover

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--Alexander D. Borowsky, M.D., D.A.B.P., Associate Professor of Pathology and Laboratory Medicine, Center for Comparative Medicine, UC Davis, CA, USA

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--Gary A. Boorman, DVM, MS, PhD, Diplomate ACVP, Diplomate ACLAM, Diplomate ABT, Pathologist, Covance Laboratories, Inc., Chantilly, VA, USA

About the Author

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Associate Professor of Pathology, former chief of UW Medical Center Anatomic Pathology Services and former Director of Pathology Laboratory Operations in the Department of Pathology, School of Medicine, University of Washington.

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