

## CHAPTER 2

# Methods of Histology

Technological progress in various scientific disciplines affords histologists many ways to study cells and tissues. The information desired usually dictates the use of one approach over another or the use of combined approaches. The maximal information attainable with any technique requires familiarity with the technique, an understanding of information output, and an appreciation of its advantages and disadvantages. The following will acquaint you with diverse techniques available to examine living cells, dead cells, and cell components. Histologists use these methods to solve histological problems.

Cell culture permits direct observation of living cells. It is routine because of the use of antibiotics. Cell culture also allows the continual observation, manipulation, and testing of explanted cells without donor jeopardy (Figs. 2-1 and 2-2). It facilitates studying cell differentiation, cell transformations, cytogenetics, cellular metabolism, cell-to-cell interactions, host-parasite relationships, and other biological processes. Cell culture is indispensable in diagnostic virology (Figs. 2-3 and 2-4), vaccine development, and vaccine production.

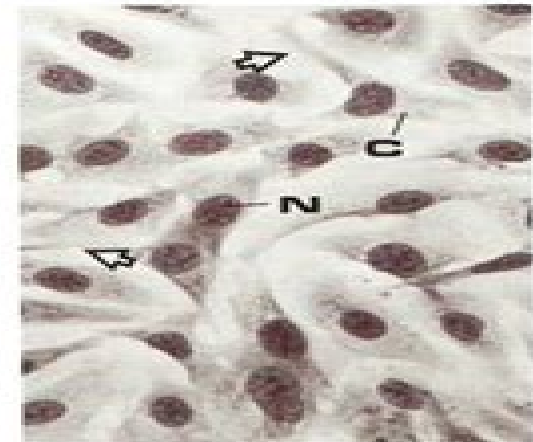


**Figure 2-1.** Low-power micrograph of a monolayer of normal bovine fetal spleen cells. Contact inhibition results in the formation of a monolayer of stellate- and spindle-shaped cells (arrows). ( $\times 40$ , Giemsa stain.) (Courtesy H. Storz.)

Implantation of transparent viewing chambers and the exteriorization and transillumination of organs and tissues complement direct observation. Although exteriorization techniques limit observation time, insights about microcirculation and the response of tissues and organs to chemotherapeutic agents have been obtained. Transparent viewing chambers extend the observation period. Neovascularization, cellular differentiation and movement, and other vital processes are studied by these techniques. The anterior chamber of the eye is a naturally occurring viewing chamber used in this approach.

The selective uptake of vital and supravital stains has added to our understanding of cell function, cell structure, and extracellular matrix materials. These stains have low toxicity; they may be injected into a living organism (vital) or used on living cells removed from the organism (supravital).

Oxytetracycline, a broad-spectrum antibiotic, is also a vital stain. At therapeutic dosages, this drug selectively stains all surfaces where bone, cementum, and dentin form (Figs. 2-5 and 2-6). Insights



**Figure 2-2.** Medium-power micrograph of a monolayer of normal bovine fetal spleen cells. The nuclei (N) are vesicular and the foamy and granular cytoplasm (C) has processes (open arrows) imparting a stellate or spindle appearance. ( $\times 100$ , Giemsa stain.) (Courtesy H. Storz.)

concerning rates of bone formation, turnover, and maintenance have been obtained through carefully timed, spaced, serial administration of the drug.

Lithium carmine and trypan blue are vital dyes for studying phagocytosis. Janus green B and neutral red are supravital stains used to study mitochondria and lysosomes.

The separation and purification of cell fractions through differential centrifugation and density gradient centrifugation are aids for studying biochemical and metabolic phenomena.

The simplest method for the direct observation of living cells is to remove them from the organism, place them on a slide, and examine them with a phase-contrast microscope (Fig. 3-4) or dark-field microscope.

Examining living cells and tissues is difficult microscopically, because they are

# Applied Veterinary Histology

**Kenneth Kardong**



## **Applied Veterinary Histology:**

*Applied Veterinary Histology* William J. Banks, 1993      **Clinical Anatomy and Physiology Laboratory Manual for Veterinary Technicians** Thomas P. Colville, Joanna M. Bassert, 2009-01-01 Reinforce the A P principles you ve learned in Clinical Anatomy Physiology for Veterinary Technicians 2nd Edition with this practical laboratory resource Filled with interactive exercises step by step procedure guidelines and full color photos and illustrations this lab manual is designed to help you understand A P in relation to your clinical responsibilities as a veterinary technician and apply your knowledge in the laboratory setting A comprehensive approach builds on the concepts presented in Clinical Anatomy Physiology for Veterinary Technicians 2nd Edition to strengthen your anatomical and physiological knowledge of all major species Engaging clinically oriented activities help you establish proficiency in radiographic identification microscopy and other essential skills Step by step dissection guides familiarize you with the dissection process and ensure clinical accuracy Clinical Application boxes demonstrate the clinical relevance of anatomical and physiological principles and reinforce your understanding Full color photographs and illustrations clarify structure and function A renowned author team lends practical guidance specifically designed for veterinary technicians A detailed glossary provides quick access to hundreds of key terms and definitions      **Veterinary Histology of Domestic Mammals and Birds 5th Edition: Textbook and Colour Atlas** Hans-Georg Liebich, 2019-10-31 A full colour atlas of veterinary histology images with accompanying text covering domestic mammals and birds It provides a peerless collection of diagrams schematics colour micrographs and electron microscope images plus online access to a further 900 colour images The author presents information from both a structural and functional perspective This applied approach highlights the importance of understanding histology as a basis for identifying disease Translated from the German edition Veterinary Histology of Domestic Mammals and Birds 5th Edition is an excellent atlas for veterinary students and veterinary school libraries 5m Books      ,      [Veterinary Cytology](#) Leslie C. Sharkey, M. Judith Radin, Davis M. Seelig, 2020-10-27 This book offers a state of the art evidence based reference to all aspects of veterinary cytology Truly multidisciplinary in its approach chapters are written by experts in fields ranging from clinical pathology to internal medicine surgery ophthalmology and dermatology drawing the various specialties together to create a comprehensive picture of cytology s role in diagnosis and treatment of animal disease Firmly grounded in the primary literature the book focuses on companion animals with special chapters for species with fewer publications Chapters are logically organized by body system with additional chapters on tumors of particular import and diagnostic decision making The first two sections of Veterinary Cytology focus on cytology techniques quality control and special laboratory techniques Subsequent sections are organ tissue based and reflect what is known about the canine feline and equine species This is followed by chapters on non traditional species including exotic companion mammals rabbits cattle camelids non human primates reptiles and birds amphibians fish invertebrates and sheep and goats The last section highlights some unique

features of the applications of cytology in industry settings Provides a gold standard reference to data driven information about cytologic analysis in companion animal species Brings together authors from a wide range of specialties to present a thorough survey of cytology s use in veterinary medicine Offers broader species coverage and greater depth than any cytology reference currently available Veterinary Cytology is an essential resource for clinical and anatomic pathologists and any specialist in areas using cytology including veterinary oncologists criticalists surgeons ophthalmologists dermatologists and internists

**Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians** Thomas P. Colville, Joanna M. Bassert, 2015-03-13 NEW Overview at a Glance sections outline the main proficiencies of each chapter and include a list of all exercises in the chapter

**Fish Ecotoxicology** Braunbeck, Streit, Hinton, 2013-03-07 In modern ecotoxicology fish have become the major vertebrate model and a tremendous body of information has been accumulated This volume attempts to summarize our present knowledge in several fields of primary ecotoxicological interest ranging from the use of ultra structural modifications of selected cell systems as sources of biomarkers for environmental impact over novel approaches to monitoring the impact of xenobiotics with fish in vitro systems such as primary and permanent fish cell cultures the importance of early life stage tests with fish the bioaccumulation of xenobiotics in fish the origin of liver neoplastic lesions in small fish species immunocytochemical approaches to monitoring effects in cytochrome P450 related biotransformation the impact of heavy metals in soft water systems the environmental toxicology of organotin compounds oxidative stress in fish by environmental pollutants to effects by estrogenic substances in aquatic systems

*Current Catalog* National Library of Medicine (U.S.), 1982 First multi year cumulation covers six years 1965 70

*Reproductive Biology and Phylogeny of Cetacea: Whales, Porpoises and Dolphins* Debra Lee Miller, 2016-04-19 The order Cetacea comprises some amazing species representing some of the most evolved creatures that inhabit this earth Yet they also represent a group of species for which much remains unknown There are over 80 species of cetaceans composed of porpoises dolphins and whales This volume represents the latest of published and previously unpubl

*Annals of Medicine and Healthcare Research: Proceedings of the 2009 International Online Medical Conference* Mostafa Nejati, Forouzan Bayat Nejad, 2009-05-06 Annals of Medicine and Healthcare Research is the proceedings of the second International Online Medical Conference which was successfully held in March 2009 This two day event brought together professors researchers experts and academicians from across the world and provided them with the opportunity to discuss their research findings in the field of medicine The conference papers have been received from all around the world and have been peer reviewed and judged by experts before being accepted for publication The IOMC organizes an annual online conference <http://www.iomcworld.com> where participants present their papers and research using web conferencing This book will provide a complete and useful resource of the latest research findings and discussions in the field of medicine which have been introduced and investigated in the IOMC Conference

**Boorman's Pathology of the Rat** Andrew W. Suttie, Gary A.

Boorman, Joel R. Leininger, Scot L. Eustis, Michael R. Elwell, William F. MacKenzie, Alys Bradley, 2017-12-01 Boorman's Pathology of the Rat Reference and Atlas Second Edition continues its history as the most comprehensive pathology reference on rat strains for researchers across science and medicine using rat models in the laboratory. It offers readers an added emphasis on the Sprague Dawley and Wistar rat strains that is consistent with current research across academia, government, and industry. In addition, the book provides standard diagnostic criteria, basic content on histology, histological changes that result from drug toxicity, and neoplasm pathology terminology, and four color photographs from the NTP archive and database. With updated references and photographs as well as coverage of all rat strains, this book is not only the standard in the field but also an invaluable resource for toxicologists, biologists, and other scientists engaged in regulatory toxicology who must make the transition from pathology results to the promulgation of meaningful regulations. Contains full four color photographs from the NTP archive and database and coverage of all rat strains. Provides an organ by organ and system by system approach that presents standard diagnostic criteria and basic content on histology and histological changes. Includes comprehensive and detailed background incidence data. Presents detailed descriptive content regarding changes in rat models during research.

**The Minipig in Biomedical Research** Peter A. McAnulty, Anthony D. Dayan, Niels-Christian Ganderup, Kenneth L. Hastings, 2011-12-19 The Minipig in Biomedical Research is a comprehensive resource for research scientists on the potential and use of the minipig in basic and applied biomedical research and the development of drugs and chemicals. Written by acknowledged experts in the field and drawing on the authors' global contacts and experience with regulatory authorities and the pharmaceutical and other industries, this accessible manual ranges widely over the biological, scientific, and practical uses of the minipig in the laboratory. Its coverage extends from the minipig's origins, anatomy, genetics, immunology, and physiology to its welfare, health, and husbandry, practical dosing and examination procedures, surgical techniques, and all areas of toxicity testing and the uses of the minipig as a disease model. Regulatory aspects of its use are considered. The reader will find an extensive amount of theoretical and practical information in the pharmacology, ADME, and toxicology chapters, which will help scientists and managers when deciding which species to use in basic research, drug discovery, and pharmacology and toxicology studies of chemicals, biotechnology products, and devices. The book discusses regulatory uses of minipigs in the evaluation of human and veterinary pharmaceuticals, medical devices, and other classes of xenobiotics. It describes features of normal health, normal laboratory values, and common diseases. It also carefully elucidates ethical and legal considerations in their supply, housing, and transport. The result is an all-inclusive and up-to-date manual about the experimental uses of the minipig that describes how to and why and what to expect in the normal combining of enthusiasm and experience with critical assessment of its values and potential problems.

*The aesthetics of haemotaphonomy.* Policarp Hortolà i Gómez, 2015-04-07 Knowing the aesthetics of a science plays a key role in deciphering its underlying cultural framework. This essay intends to provide insight into the aesthetics of haemotaphonomy by identifying

its stylistic parallels with literature and the visual arts An additional interest of this work is to serve as an example of a procedure for approaching the aesthetics of other sciences The author focuses the aesthetics of science from a novel perspective He conceives it from a neuralistic point of view unbound from the compulsive search for a supposed ideal of beauty Hence this essay does not consider beauty but rather aesthetic movements those that have been found to be self evidently significant and analytically productive in explaining The aesthetic of the science under examination Some opinions on this essay Very interesting James A Marcum Baylor University Thought provoking Susan D Jones University of Minnesota Fascinating Roald Hoffmann 1981 Nobel Prize in Chemistry Cornell University      **Equine Acute Abdomen** Nathaniel A. White, James N. Moore, Tim S. Mair, 2009-10-31 This title allows users to effectively diagnose and treat any acute disease of the stomach intestines peritoneum liver and abdominal wall Its authorship includes over 20 internationally recognized experts that provide critical information needed by practitioners for management of abdominal diseases This informative resource provides a thorough discussion of normal and abnormal anatomy and physiology Surgical techniques are broken down into an easy to read step by step format This highly visual presentation with over 410 illustrations is a necessary edition to an equine practitioner s library Published by Teton New Media in the USA and distributed by Manson Publishing outside of North America      *Clinically Oriented Anatomy of the Dog and Cat (2nd Edition)* M.S.A. Kumar, 2015 Gross anatomy should begin with developing an appreciation for the organ system s building blocks Therefore the first nine chapters have been devoted to describing and explaining differences between the various tissue types A development basis for anatomy is incorporated throughout the text book Also this book richly illustrated with numerous conceptual diagrams that will hopefully help the reader to understand detailed topics especially related to the more complex nervous systems

**Ebook: Vertebrates: Comparative Anatomy, Function, Evolution** Kenneth Kardong, 2014-10-16 This one semester text is designed for an upper level majors course Vertebrates features a unique emphasis on function and evolution of vertebrates complete anatomical detail and excellent pedagogy Vertebrate groups are organized phylogenetically and their systems discussed within such a context Morphology is foremost but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems      *Manual of Equine Lameness* Gary M. Baxter, 2011-11-15 Manual of Equine Lameness provides essential information on equine lameness diagnostics and treatment in an easy to use format ideal for the clinical setting A clinically relevant distillation of topics from Adams and Stashak s Lameness in Horses this text offers a quick introduction and fast access to key information An accompanying DVD includes practical supplements including additional anatomical images video clips demonstrating key procedures such as perineural and intrasynovial injections and examples of lameness conditions in motion Designed for use in daily practice the book is presented in brief chapters carefully formatted to maximize the usefulness for practicing veterinarians Manual of Equine Lameness is an invaluable resource to any veterinarian treating lameness in horses and an

ideal reference for veterinary students wanting to learn the fundamentals of lameness      **Fundamentals of Toxicologic Pathology** Matthew A. Wallig, Wanda M Haschek, Colin G. Rousseaux, 2009-11-23 Toxicologic pathology integrates toxicology and the disciplines within it such as biochemistry pharmacodynamics and risk assessment to pathology and its related disciplines such as physiology microbiology immunology and molecular biology Fundamentals of Toxicologic Pathology Second Edition updates the information presented in the first edition including five entirely new chapters addressing basic concepts in toxicologic pathology along with color photomicrographs that show examples of specific toxicant induced diseases in animals The current edition also includes comparative information that will prove a valuable resource to practitioners including diagnostic pathologists and toxicologists 25% brand new information fully revised throughout New chapters Veterinary Diagnostic Toxicologic Pathology Clinical Pathology Nomenclature Terminology for Morphologic Alterations Techniques in Toxicologic Pathology New color photomicrographs detailing specific toxicant induced diseases in animals Mechanistic information integrated from both toxicology and pathology discussing basic mechanisms of toxic injury and morphologic expression at the subcellular cellular and tissue levels      **Whales, Seals, Fish and Man** A. Schytte Blix, L. Walløe, Ø. Ulltang, 1995-10-06 This volume outlines the major findings from the Norwegian research programme on whales and seals in Norwegian waters A wide range of topics are covered including physiological aspects social organization population dynamics stock assessment and management The book will be of great value to scientists and managers as well as to members of the general public interested in environmental issues      **Anatomy and Physiology of Domestic Animals** R. Michael Akers, D. Michael Denbow, 2013-07-03 Anatomy and physiology are key foundational areas of study for animal science students and professionals Understanding these guiding principles will provide students with a better understanding of complex make up of domestic animals and continued success in further study in this field Anatomy and Physiology of Domestic Animals provides a thorough systems based introduction to anatomy and physiology of a wide range of domestic animal species Each chapter is highly illustrated to provide useful examples of concepts discussed

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- Chapter 3: Applied Veterinary Histology in Everyday Life
- Chapter 4: Applied Veterinary Histology in Specific Contexts
- Chapter 5: Conclusion

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