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Veterinary Immunology - E-Book Veterinary Immunology Veterinary Immunology Day's Veterinary Immunology Proceedings of the 9th International Veterinary Immunology Symposium (9th IVIS) Veterinary Immunology Veterinary Immunology Georgis' Parasitology for Veterinarians Vaccines for Veterinarians E-Book Special Issue Pediatrics, An Issue of Veterinary Clinics of North America: Small Animal Practice, Immunology and Vaccination, An Issue of Veterinary Clinics of North America: Small Animal Practice Recent Advances in Veterinary Immunology Concepts and Methodology Basic Veterinary Immunology Clinical Immunology of the Dog and Cat, Second Edition Equine Clinical Immunology Fundamentals of Veterinary Clinical Pathology Avian Immunology Review Questions and Answers for Veterinary Technicians E-Book Mosby's Comprehensive Review for Veterinary Technicians - E-Book Case Studies in Veterinary Immunology Toxocara Mastitis in Dairy Cattle, Sheep and Goats Veterinary Clinical Pathology Secrets E-Book Immunoglobulins—Advances in Research and Application: 2012 Edition The Clinical Chemistry of Laboratory Animals Animal Science Reviews 2012 Toxoplasmosis Veterinary Medicine - E-BOOK Primer to the Immune Response Equine Genomics Insect

Immunology Nutritional Intervention for the Intestinal Health of Young Monogastric Animals Clinical Biochemistry of Domestic Animals Introduction to Veterinary Genetics Cumulated Index Medicus Inflammation, Chronic Diseases and Cancer Fasciolosis, 2nd Edition Veterinary Immunology 10th Edition Index Medicus

Veterinary Immunology: Principles and Practice has become the adopted text in numerous veterinary schools throughout the world. Widely updated with advances in knowledge since 2011, this second edition reflects the rapid development in the field. The new edition presents expanded information on commonly used diagnostic test procedures and discusses Prepare for VTNE success! Review Questions and Answers for Veterinary Technicians, 6th Edition provides 5,000 VTNE-style questions that have been reviewed and updated to reflect the latest changes to the Veterinary Technician National Examination. The book begins with multiple-choice questions on basic knowledge, including anatomy and physiology, hospital management, calculations, and terminology. It continues with a Q&A review of core subjects such as pharmacology, surgical nursing, laboratory procedures, diagnostic imaging, and pain management. Written by veterinary

technology educator Heather Prendergast, this review includes an Evolve website allowing you to create customized, timed practice exams that mirror the VTNE experience. More than 5,000 multiple-choice questions are rigorously reviewed, mirror the type of questions found on the VTNE, and are designed to test factual knowledge, reasoning skills, and clinical judgment. Detailed rationales are included in the print text and on the Evolve website, reinforcing student knowledge and providing the reasoning behind answers. Organization of the book into primary subject areas reflects the latest version of the VTNE. Customized exam generator on Evolve offers a simulated test-taking experience with customized practice tests and timed practice exams with instant feedback and extended rationales. NEW! More than 200 new questions are added to this edition. Designed to fill the current gap in resources for teaching veterinary immunology, Basic Veterinary Immunology offers a solid background in the essentials of immunology within the context of veterinary medicine. The book combines a clinical framework complete with real-world examples to integrate the theory and practice of veterinary medicine. Each chapter begins with a clinically relevant veterinary issue and then presents one aspect

of basic immunology in the context of that issue. All chapters include learning objectives and a clinical correlation follow-up section that includes student considerations and a review of the possible explanations for the clinical presentation. Illustrated with 250 full-color images and figures that will also be available as PowerPoint teaching aids, Basic Veterinary Immunology and related materials will be made available online to students, faculty, and clinical veterinarians in partnership with the Veterinary Information Network. Basic Veterinary Immunology will provide students with a good working knowledge of veterinary immunology that will serve them both in the completion of their curricula and in professional practice. The only complete resource on immunology for veterinary students and practitioners, Veterinary Immunology: An Introduction features a straightforward presentation of basic immunologic principles with comprehensive information on the most significant immunological diseases and responses seen in domestic animals. This meticulously updated new edition explores the latest advances in the field and provides a wealth of clinical examples that illustrate and clarify important concepts. Comprehensive coverage of vaccines and vaccine usage, allergies and allergic diseases, and autoimmunity and immunodeficiencies, prepare you for the multiple immunologic issues you will encounter in practice. A wealth of clinical examples clearly illustrate key

concepts and offer practical strategies for diagnosing and treating immunologic disorders in the clinical setting. More than 500 full-color diagrams and illustrations visually demonstrate and clarify complex issues. Completely updated section on innate immunity includes new chapters on natural killer (NK) cells and systemic responses to infection to ensure you have the most up-to-date information. New information on genomics and molecular diagnostic techniques explores how the emerging field of genomics impacts disease resistance and immunology in general, as well as the diagnosis and treatment of immunological and infectious diseases. Updated content provides new information on well-recognized older diseases such as rheumatoid arthritis, systemic lupus, and inflammatory bowel disease, as well as current information on new diseases such as devil facial tumor disease and bovine neonatal pancytopenia. Expanded coverage brings you the latest knowledge on resistance to infection, such as vaccine usage, especially with respect to duration of immunity, the effects of key vitamins and lipids on immune responses, the effects of old age on immunity, and both antiviral and parasitic immunity. Diagnostic tests described throughout the text include a new section on the analysis of ELISA test data, as well as a brief summary of molecular diagnostic techniques. Coverage reflecting a significant change in the overall view of immunology provides you with the foundational

knowledge needed to grasp the broad pattern of immunologic reactions and understand how the immune system functions as an interconnected network, rather than a series of independent pathways. New discussions of the critical importance of commensal bacteria and intestinal flora explain help you understand the importance of this normal flora with respect to antibacterial immunity, allergies, and autoimmunity, while at the same time providing a broader view of the animal body and its microflora as a "superorganism." A discussion of the importance of adipose tissue in immunity and inflammation addresses the epidemic of obesity in domestic pets and the extraordinary growth rates expected of domestic livestock. The section on inflammatory mechanisms has been divided into separate chapters focusing on the detection of invaders and the mediators of inflammation to incorporate the vast amount of new information on pattern recognition receptors and the ways in which they warn the body of microbial invasion. Written in the same engaging conversational style as the acclaimed first edition, Primer to The Immune Response, 2nd Edition is a fully updated and invaluable resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the

subject's fascinating appeal. The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, *Primer to The Immune Response, 2nd Edition* contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections. Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations This work is the first book-length publication on the topic of insect immunology since 1991, complementing earlier works by offering a fresh perspective on current research. Interactions of host immune systems with both parasites and pathogens are presented in detail, as well as the genomics and

proteomics, approaches which have been lacking in other publications. Bechga provides comprehensive coverage of topics important to medical researchers, including *Drosophila* as a model for studying cellular and humoral immune mechanisms, biochemical mediators of immunity, and insect blood cells and their functions. Encompasses the most important topics of insect immunology including mechanisms, genes, proteins, evolution and phylogeny Provides comprehensive coverage of topics important to medical researchers including *Drosophila* as a model for studying cellular and humoral immune mechanisms, biochemical mediators of immunity, and insect blood cells and their functions Most up-to-date information published with contributions from international leaders in the field *Toxoplasma gondii* was first identified more than 100 years ago in the tissues of birds and mammals. Although toxoplasmosis is important all over the world, its approaches to diagnostic strategies considerably differ among countries. Its wide distribution may be attributed to complex transmission patterns and parasite coevolution with multiple hosts. Although *T. gondii* infections of immunocompetent people are generally considered asymptomatic, infections in immunocompromised individuals, such as those with AIDS or organ transplant recipients, can result in severe consequences. This book, composed of a series of articles, including effective diagnosis of laboratory in toxoplasma infections, congenital

toxoplasmosis, relationship between toxoplasmosis and public health genomics, prevalence, genetic diversity of toxoplasmosis, and microparticle vaccines against *Toxoplasma gondii* by authors from all over the world, presents a wide open point of view for toxoplasmosis. This book is a collection of excellent reviews and perspectives contributed by experts in the multidisciplinary field of basic science, clinical studies and treatment options for a wide range of acute and chronic inflammatory diseases or cancer. The goal has been to demonstrate that persistent or chronic (unresolved or subclinical) inflammation is a common denominator in the genesis, progression and manifestation of many illnesses and/or cancers, particularly during the aging process. Understanding the fundamental basis of shared and interrelated immunological features of unresolved inflammation in initiation and progression of chronic diseases or cancer are expected to hold real promises when the designs of cost-effective strategies are considered for diagnosis, prevention or treatment of a number of age-associated illnesses such as autoimmune and neurodegenerative diseases as well as many cancers. The second edition of *Avian Immunology* provides an up-to-date overview of the current knowledge of avian immunology. From the ontogeny of the avian immune system to practical application in vaccinology, the book encompasses all aspects of innate and adaptive immunity in chickens. In addition, chapters are

devoted to the immunology of other commercially important species such as turkeys and ducks, and to ecoimmunology summarizing the knowledge of immune responses in free-living birds often in relation to reproductive success. The book contains a detailed description of the avian innate immune system, encompassing the mucosal, enteric, respiratory and reproductive systems. The diseases and disorders it covers include immunodepressive diseases and immune evasion, autoimmune diseases, and tumors of the immune system. Practical aspects of vaccination are examined as well. Extensive appendices summarize resources for scientists including cell lines, inbred chicken lines, cytokines, chemokines, and monoclonal antibodies. The world-wide importance of poultry protein for the human diet, as well as the threat of avian influenza pandemics like H5N1 and heavy reliance on vaccination to protect commercial flocks makes this book a vital resource. This book provides crucial information not only for poultry health professionals and avian biologists, but also for comparative and veterinary immunologists, graduate students and veterinary students with an interest in avian immunology. With contributions from 33 of the foremost international experts in the field, this book provides the most up-to-date review of avian immunology so far. Contains a detailed description of the avian innate immune system reviewing constitutive barriers, chemical and cellular responses; it includes a comprehensive

review of avian Toll-like receptors. Contains a wide-ranging review of the "ecoimmunology" of free-living avian species, as applied to studies of population dynamics, and reviews methods and resources available for carrying out such research. Whether you're a new vet tech student or reviewing for the certification exam, Mosby's Comprehensive Review for Veterinary Technicians, 4th Edition is the ideal review tool to help you master critical concepts and pass the VTNE. Now in full color, this edition features a user-friendly outline format that helps break down information visually. Coverage reinforces key concepts in basic and clinical sciences, clinical applications, patient management and nutrition, anesthesia and pharmacology, medical and surgical nursing, and critical care, plus new information on pain management. To ensure the most meaningful review, the Evolve site features a study mode that includes 500 review questions and an exam mode that offers a computer-based testing environment similar to what you will encounter when taking the VTNE. Comprehensive coverage includes all areas of veterinary technology, such as: basic and clinical sciences; clinical applications; patient management, nursing and nutrition; anesthesia and pharmacology; and professional practices and issues. Comprehensive review exam at the end of the text contains 350 questions that provide you with a solid review of the vet tech curriculum and the information you need to know to pass the VTNE. User-friendly outline

format is conducive to classification and grouping of material, which helps you retain the content. Coverage of dogs, cats, large animals, birds, reptiles, and laboratory animals ensures you are prepared for all aspects of the national board examination. Summarized concepts and procedures are highlighted in boxes and tables to support visual learners. Student-friendly chapter format contains a chapter outline, learning outcomes, a glossary, and review questions. Appendix of veterinary technician resources include American, Canadian, and international vet tech associations; registration of technicians; and special internet sites of interest to veterinary technicians. NEW! Chapter on pain management and updated and expanded chapter discussions provide the information needed to pass the VTNE NEW! Companion Evolve website contains a practice exam that simulates the computer-based VTNE testing environment. NEW! Full-color format features vivid color photos to support comprehension and recognition of essential concepts including histology, hematology, diagnostic microbiology and mycology, virology, urinalysis, and parasitology. This issue focuses on pediatric disorders in dogs and cats. Topics will include: clinical pathology of dogs and cats, pediatric neutering, pediatric immunization, nutrition, seizure disorders, canine pediatric dentistry, pediatric feline upper respiratory disease, neonatal fading syndrome, holistic pediatric medicine, management of the cleft palate, and

urinary ectopia. Treat the diseases affecting large animals! Veterinary Medicine, 11th Edition provides up-to-date information on the diseases of horses, cattle, sheep, goats, and pigs. Comprehensive coverage includes the principles of clinical examination and making a diagnosis, along with specific therapy recommendations. For easier use, this edition has been divided into two volumes and restructured into a logical, anatomically based approach to disease. From internationally known veterinary experts Peter Constable, Kenneth Hinchcliff, Stanley Done, and Walter Grünberg, this book is the definitive, one-stop reference for farm animal and equine care. Comprehensive coverage includes information essential to any large-animal veterinarian, especially those working with horses, cattle, sheep, goats, or pigs. Coverage of diseases addresses major large-animal diseases of all countries, including foreign animal and emerging diseases. User-friendly format makes it easier to quickly absorb key information. Quick review/synopsis sections make important information on complex diseases easy to find. NEW! Convenient, easy-access format is organized by organ systems, and divides the content into two compact volumes with the same authoritative coverage. Nearly 200 new color photographs and line drawings are included in this edition. NEW full-color design improves navigation, clarifies subject headings, and includes more boxes, tables, and charts for faster reference. New Diseases Primarily

Affecting the Reproductive System chapter is added. Updated and expanded chapter on pharmacotherapy lists therapeutic interventions and offers treatment boxes and principles of antibiotic use. Expanded sections on herd health include biosecurity and infection control, and valuable Strength of Evidence boxes. NEW or extensively revised sections include topics such as the Schmallenberg and Bluetongue viral epidemics of ruminants in Europe, Wesselbron disease in cattle, hypokalemia in adult cattle, equine multinodular pulmonary fibrosis, Hendra virus infection, porcine reproductive and respiratory syndrome, torque teno virus, and numerous recently identified congenital and inherited disorders of large animals. Additional content is provided on lameness in cattle and the diseases of cervids. Revised edition of: Veterinary immunology / Ian R. Tizard. 9th ed. c2013. "Renowned for its meticulous attention to detail, Georgis' Parasitology for Veterinarians provides current, complete information on all parasites commonly encountered in veterinary medicine, as well as information about minor or rare parasites. You'll find discussions of arthropods, protozoans, and helminths of veterinary medicine, including taxonomy and life cycles, as well as clinical signs, diagnosis, and treatment of each parasite's infection or infestation. More than 800 high-quality, full-color photographs and illustrations help you to easily identify and treat parasites of every kind."--BOOK JACKET. Analysis of the equine

genome began just over a decade ago, culminating in the recent complete sequencing of the horse genome. The availability of the equine whole genome sequence represents the successful completion of an important era of equine genome analysis, and the beginning of a new era where the sequence information will catalyze the development of new tools and resources that will permit study of a range of traits that are economically important and are significant to equine health and welfare. Equine Genomics provides a timely comprehensive overview of equine genomic research. Chapters detail key accomplishments and the current state of research, as well as looking forward to possible applications of genomic technologies to horse breeding, health, and welfare. Equine Genomics delivers a global overview of the topic and is seamlessly edited by a leading equine genomics researcher. Equine Genomics is an indispensable source of information for anyone with an interest in this increasingly important field of study, including equine genomic researchers, clinicians, animal science professionals and equine field veterinarians. Key features: Serves as the detailed, authoritative source of the clinical chemistry of the most commonly used laboratory animals Includes detailed chapters dedicated to descriptions of clinical chemistry-related topics specific to each laboratory species as well as organ/class-specific chapters Presents information regarding evaluation and interpretation of a variety of individual clinical

chemistry end points Concludes with detailed chapters dedicated to descriptions of statistical analyses and biomarker development of clinical chemistry-related topics Provides extensive reference lists at the end of each chapter to facilitate further study Extensively updated and expanded since the publication of Walter F. Loeb and Fred W. Quimby's second edition in 1999, the new *The Clinical Chemistry of Laboratory Animals, Third Edition* continues as the most comprehensive reference on in vivo animal studies. By organizing the book into species- and organ/class-specific chapters, this book provides information to enable a conceptual understanding of clinical chemistry across laboratory species as well as information on evaluation and interpretation of clinical chemistry data relevant to specific organ systems. Now sponsored by the American College of Laboratory Animal Medicine (ACLAM), this well-respected resource includes chapters on multiple laboratory species and provides pertinent information on their unique physiological characteristics, methods for sample collection, and preanalytical sources of variation for the particular species. Basic methodology for common procedures for each species is also discussed. New Chapters in the Third Edition Include: The Laboratory Zebrafish and Other Fishes Evaluation of Cardiovascular and Pulmonary Function and Injury Evaluation of Skeletal Muscle Function and Injury Evaluation of Bone Function and Injury Vitamins Development of Biomarkers Statistical

Methods *The Clinical Chemistry of Laboratory Animals, Third Edition* is intended as a reference for use by veterinary students, clinical veterinarians, veterinary toxicologists, veterinary clinical pathologists, and laboratory animal veterinarians to aid in study design, collection of samples, and interpretation of clinical chemistry data for laboratory species. Michael Day's *Veterinary Immunology: Principles and Practice* is the adopted text in numerous veterinary schools throughout the world. Updated and revised by Brian Catchpole and Harm HogenEsch with advances in knowledge since 2014, this third edition reflects the rapid developments in the field internationally, while preserving the strengths of Day's original writing. It adds numerous case studies demonstrating the clinical context across companion and farm animals. The textbook presents information on commonly used diagnostic test procedures and includes learning objectives at the start and key points at the end of each chapter, standard symbols in diagrams throughout the text to provide continuity, clinical examples and clinicopathological figures throughout, and a glossary of terms and list of commonly used abbreviations. Short animations are viewable via the Support Materials tab on the Routledge webpage, adding a new element of practical application. Exploring the immunological principles of both large and small animals, the book emphasizes immunological principles while applying them to disease processes and

to clinical practice. It provides a practical textbook for veterinary students and a handy reference for practitioners. Both a theoretical text and a practical handbook, *Vaccines for Veterinarians* is the first of its kind to bring the basic science of animal vaccination and the practical details of vaccine use together in one single volume. From the first chapter on the history of vaccination and the triumph of rinderpest eradication to the last chapter on the rapidly emerging field of cancer vaccines, this book offers a truly comprehensive grounding in established and emerging vaccines for both major and minor species. Specific topics include viral vectored vaccines, DNA-plasmid vaccines, RNA vaccines, reverse vaccinology, the complexities of adjuvant use, vaccine failures and adverse events, vaccine production and regulation, robotic vaccination machines, contraceptive and production-enhancing vaccines, and so much more. At a time when resistance to human vaccination is receiving much publicity, this evidence-based book is the ideal counter to ill-informed speculation — serving as a timely reminder that vaccination is essential for the control of infectious diseases in animals. Well-respected and experienced veterinary author, Ian Tizard, provides expert guidance on the topic of vaccinations and immunology in veterinary medicine. Expert Consult site offers an online version of the book, making it easy to search the entire book electronically. The latest information on viral vectored vaccines keeps

you up-to-date on the topic as well as the properties and relative advantages of currently used vectors in animal vaccines. Survey of vaccine responses covers the different mechanisms by which the immune system responds to different types of vaccines. Inclusion of the latest vaccine technologies discusses the advantages and disadvantages of DNA-plasmid vaccines, RNA vaccines, and more. Coverage of adverse events and hypersensitivities includes the best ways to treat them and report them. Coverage of passive immunization discusses the growing use of therapeutic monoclonal antibodies in veterinary medicine. Coverage of immunotherapy includes recent improvements and new products in both active and passive immunotherapy against animal cancers. The concepts of veterinary genetics are crucial to understanding and controlling many diseases and disorders in animals. They are also crucial to enhancing animal production. Accessible and clearly presented, Introduction to Veterinary Genetics provides a succinct introduction to the aspects of genetics relevant to animal diseases and production. Now in its third edition, this is the only introductory level textbook on genetics that has been written specifically for veterinary and animal science students. Coverage includes: basic genetics, molecular biology, genomics, cytogenetics, immunogenetics, population genetics, quantitative genetics, biotechnology, and the use of molecular tools in the control of inherited disorders. This book

describes in detail how genetics is being applied to artificial selection in animal production. It also covers the conservation of genetic diversity in both domesticated and wild animals. New for the Third Edition: End-of-chapter summaries provide quick recaps. Covers new topics: epigenetics, genomics and bioinformatics. Thoroughly revised according to recent advances in genetics. Introduction to Veterinary Genetics is still the only introductory genetics textbook for students of veterinary and animal science and will continue to be an indispensable reference tool for veterinary students and practitioners alike. Equine Clinical Immunology offers comprehensive information on equine immunological disorders. • Provides a complete, equine-specific reference on clinical immunology • Focuses on clinically relevant information for the diagnosis and treatment of horses with immune disorders • Illustrates the concepts discussed using drawings, photographs, and tables • Presents key concepts, clinical assessment information, and treatment approaches in text boxes for ease of use • Offers a practical, clinically oriented approach ideal for equine specialists This book provides in-depth information about common clinical laboratory assays that are used to evaluate domestic mammals, including what assays measure, sample or assay conditions that affect results, and what results indicate about the physiologic or pathologic state of a patient. Whenever possible, diseases and conditions are grouped by common mechanisms

or processes to promote a conceptual understanding of laboratory data that can be generally applied across many species. New to the second edition are additional disorders, diagnostic tests, illustrations, images, references, and pathophysiologic explanations. This text has proven valuable to students and veterinarians wanting a fundamental understanding of veterinary clinical pathology. This second edition of a bestseller details the manifestations, diagnosis and treatment of immune-related disease in the dog and cat. It is illustrated throughout in full color, to show and explain to the reader as clearly as possible the complicated principles of disease and immunodiagnostic tests, supported by clinical cases, gross and histopathology, cytology, hematology, immunohistochemistry and other immunological tests. This book accompanies and complements the teaching of immunology within the veterinary curriculum. It covers large and small animals, and provides clear learning objectives focusing on immunological principles while applying them to the disease process and to clinical practice. The book is case based and illustrated throughout in color. Immunoglobulins—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Immunoglobulins. The editors have built Immunoglobulins—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You

can expect the information about Immunoglobulins in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Immunoglobulins—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Clinical Biochemistry of Domestic Animals, Second Edition, Volume I, is a major revision of the first edition prompted by the marked expansion of knowledge in the clinical biochemistry of animals. In keeping with this expansion of knowledge, this edition is comprised of two volumes. Chapters on the pancreas, thyroid, and pituitary-adrenal systems have been separated and entirely rewritten. Completely new chapters on muscle metabolism, iron metabolism, blood clotting, and gastrointestinal function have been added. All the chapters of the first edition have been revised with pertinent new information, and many have been completely rewritten. This volume contains 10 chapters and opens with a discussion of carbohydrate metabolism and associated disorders. Separate chapters follow on lipid

metabolism, plasma proteins, and porphyrins. Subsequent chapters deal with liver, pancreatic, and thyroid functions; the role of the pituitary and adrenal glands in health and disease; the function of calcium, inorganic phosphorus, and magnesium metabolism in health and disease; and iron metabolism. We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies (IUIS). We hereby state publicly that the IUIS has had no editorial input in articles included in this Research Topic, thus ensuring that all aspects of this Research Topic are evaluated objectively, unbiased by any specific policy or opinion of the IUIS. Fasciolosis is a major global infection of livestock causing both huge losses to the agricultural community and affecting human health as a food-borne disease. Fully updated throughout, this new edition continues to cover the life cycle, biology, and development of the parasite; clinical pathology, immunology, diagnosis and vaccine development; and emergence, cause and mechanisms of drug resistance. It reviews the temperate liver fluke *Fasciola hepatica*, together with molecular, biochemical, control, and epidemiological aspects of the tropical liver fluke *F. gigantica*. Many fundamental advances have taken place in the last two decades, but of particular importance has been the mapping of the draft genome of *Fasciola*. In addition, comprehensive advances in transcriptomics, proteomics and glycomics have been made, and the book

therefore pays particular attention to these developments with the addition of brand-new chapters. Also covering the impact these parasites have had on the global human population, their distribution and their ecology, this book provides a comprehensive and accessible resource for scientists, researchers and students of medical and veterinary parasitology. Mastitis, an inflammation of the mammary glands, is the most costly disease in dairy farming, mainly caused by a broad range of bacteria categorized into contagious and environmental bacteria. This book is a concise summary of mastitis in dairy cattle, sheep, and goats, which mainly focuses on etiological agents, epidemiology, pathogenesis, clinical manifestation, pathological and histopathological changes, diagnosis, prevention, and control measures. This book serves as a textbook on mastitis in dairy cattle, sheep, and goats for dairy veterinarians, veterinary students, animal science students, dairy technicians, animal health professionals. Several researchers worldwide contributed to this book. This book contains the latest information on mastitis in dairy cattle, sheep, and goats and antimicrobial usage to prevent and control mastitis. Animal Science Reviews 2012 provides scientists and students in animal science with timely analysis on key topics in current research. Originally published online in CAB Reviews, this volume makes available in printed form the reviews in animal science published during 2012. Exploring the

immunologic concerns of both large and small animals, *Veterinary Immunology: An Introduction*, 10th Edition is the only complete resource on immunology for veterinary practitioners. This new edition has been meticulously updated to continue its trend of incorporating the latest advances and topics in the field. It features a straightforward presentation of basic immunologic principles along with thorough and timely information on the most significant immunologic diseases and responses seen in domestic animals. Comprehensive coverage clearly explains the general principles of immunology, and provides information on the most significant immunologic diseases and immunologic responses seen in domestic animals and marine mammals. A wealth of clinical examples show how principles will be experienced and addressed in the clinical setting. Educator and student resources on Evolve feature an image collection, enhanced animations, flashcards, content updates, and a test bank for instructors. Improved images clarify new content and enhance your understanding. NEW! Updated content covers new T cell subpopulations, newly described interleukins; new approaches to cancer immunotherapy; immunology of fish; and new advances in genomics. NEW! Learning objectives have been added to the beginning of each chapter. NEW! Chapter on commensal bacterial will address the role of commensal bacteria in veterinary immunology and provide convincing

explanations for previously poorly understood phenomena. NEW! Information on the pathogenesis and treatment of atopic dermatitis has been added to help inform veterinarians who treat pets with dermatologic conditions. NEW! Revised content on cancer immunology reflects the vast expansion of information that has been uncovered in the past five years. NEW! Expanded information on the role of nutrition in animal immunity offers a rational basis for examining data of those who claim nutritional benefits. NEW! Full-color histologic images replace black and white images to more effectively convey concepts. Case Studies in *Veterinary Immunology* presents basic immunological concepts in the context of actual cases seen in clinics. It is intended for veterinary medicine students, interns, residents, and veterinarians, and serves as a valuable supplement and companion to a variety of core immunology textbooks and courses. The book includes cases describing primary immune system defects, secondary immune system defects, and hypersensitivity and autoimmune disorders, as well as dysproteinemias and lymphoid neoplasia. Drawing on the successful approach of Geha's *Case Studies in Immunology*, each representative case is preceded by a discussion of the principles underlying that specific immunological mechanism. The case itself includes the presenting complaint (signalment), physical examination findings, pertinent diagnostic laboratory data, diagnosis, and

treatment options. In those instances in which a specific disorder occurs in both animals and humans, the differences and similarities in the immunological mechanisms and manifestations of the disease are explored. End of case questions highlight important concepts and serve as a review aid for students. Details on standard vaccines and vaccination schedules, as well as descriptions of the types of assays used for evaluation of the immune system, are included as appendices. This issue of *Veterinary Clinics of North America: Small Animal Practice* focuses on Immunology and Vaccination, with topics including: Recent Advances In Vaccine Technologies; Immune System's Response to Vaccination; Current Vaccine Strategies for Dogs and Cats; Update on Therapeutic Vaccines; Common and Newly Recognized Autoimmune Diseases; Adverse Response to Vaccination; Vaccines in Shelters and Group Settings; Evidence vs Belief in Vaccine Recommendations; Effects of Aging on the Immune Response; and Use of Antibody Titer to Determine the Need for Vaccination. Part of the popular SECRETS SERIES®, this all-new text provides essential, practical information for reviewing pathology commonly encountered in clinical situations. Organized by disorder type, it features numerous photos, a popular question-and-answer format, and a detailed index that makes it easy to find information quickly. In more than 50 chapters, expert contributors propose key questions and provide authoritative answers addressing the situations

that confront small animal veterinarians every day. Comprehensive coverage of pathology is offered by a team of nationally recognized veterinary pathology experts. All of the most important "need to know" questions and answers are provided in the proven format of the acclaimed Secrets Series. More than 150 superior-quality photos highlight key concepts. A thorough, highly detailed index provides quick and easy access to specific topics. Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings. This book contains 19 chapters focusing on Toxocara and the disease it causes known as toxocariasis. The chapters are divided into the following parts: molecular biology (3 chapters); Toxocara as a model system (2); animal models for toxocariasis (1); human disease (4); immunology of toxocariasis (2); epidemiology of toxocariasis (3); Toxocara in the veterinary context (3); economic impact of the disease (1). It will interest a wide range of general, veterinary and medical parasitologists as well as clinicians and those concerned with public health.

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