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Veterinary Vaccines

Principles and Applications

John Wiley & Sons Provides a concise and authoritative reference on the use of vaccines against diseases of livestock Compiled by Senior Animal Health Officers at The Food and Agriculture Organization of the United Nations, and with contributions from international leading experts, *Veterinary Vaccines: Principles and Applications* is a concise and authoritative reference featuring easily readable reviews of the latest research in vaccinology and vaccine immune response to pathogens of major economic impact to livestock. It covers advice and recommendations for vaccine production, quality control, and effective vaccination schemes including vaccine selection, specifications, vaccination programs, vaccine handling in the field, application, failures, and assessment of herd protection. In addition, the book presents discussions on the current status and potential future developments of vaccines and vaccination against selected transboundary animal diseases. Provides a clear and comprehensive guide on using veterinary vaccines to protect livestock from diseases Teaches the principles of vaccinology and vaccine immune response Highlights the vaccine production schemes and standards for quality control testing Offers easy-to-read reviews of the most current research on the subject Gives readers advice and recommendations on which vaccination schemes are most effective Discusses the today's state of vaccines and vaccination against selected transboundary animal diseases as well as possible future developments in the field *Veterinary Vaccines: Principles and Applications* is an important resource for veterinary practitioners, animal health department officials, vaccine scientists, and veterinary students. It will also be of interest to professional associations and NGO active in livestock industry.

Ticks and Host Immunity – New Strategies for Controlling Ticks and Tick-Borne Pathogens

Frontiers Media SA

Veterinary Medical Education

A Practical Guide

John Wiley & Sons *Veterinary Medical Education: A Practical Guide* offers a complete resource to fundamental information on key areas of veterinary education. Provides a practical guide to the key principles of veterinary medical education Takes a real-world approach, with concrete guidance for teaching veterinary skills and knowledge Covers all aspects of designing and implementing a veterinary curriculum Emphasizes key points and helpful tips Offers a veterinary-specific resource for any veterinary educator worldwide

Allergy & Immunology Secrets

Hanley & Belfus Each chapter provides comprehensive coverage of all the topics necessary to pass the allergy-clinical immunology boards in the easy-to-use Secrets format. Chapters include epidemiology, pathophysiology, asthma, sinusitis, urticaria/angioedema, atopic dermatitis, anaphylaxis, food allergy/intolerance, insect allergy, drug hypersensitivity, immunodeficiency, and systemic mast cell disease.

Flow Cytometry and Cell Sorting

Springer Science & Business Media The analysis and sorting of large numbers of cells with a fluorescence-activated cell sorter (FACS) was first achieved some 30 years ago. Since then, this technology has been rapidly developed and is used today in many laboratories. A Springer Lab Manual Review of the First Edition: "This is a most useful volume which will be a welcome addition for personal use and also for laboratories in a wide range of disciplines. Highly recommended." CYTOBIOS

Essentials of Clinical Immunology

John Wiley & Sons *Essentials of Clinical Immunology* provides the most up-to-date, core information required to understand diseases with an immunological basis. Clinically focussed, the sixth edition of this classic text presents theoretical and practical information in a simple yet thorough way. *Essentials of Clinical Immunology* covers the underlying pathophysiology, the signs and symptoms of disease, the investigations required and guidance on the management of patients. Perfect for clinical medical students, junior doctors and medical professionals seeking a refresher in the role of immunology in clinical medicine, this comprehensive text features fully updated clinical information, boxes with key points, real-life case histories to illustrate key concepts and an index of contents at the start of each chapter. A companion website at www.immunologyclinic.com provides additional learning tools, including more case studies, interactive multiple-choice questions and answers, all of the photographs and illustrations from the book, links to useful websites, and a selection of review articles from the journal *Clinical and Experimental Immunology*. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from iTunes, Google Play or the MedHand Store.

The Oxford Handbook of Animals in Classical Thought and Life

OUP Oxford *The Oxford Handbook of Animals in Classical Thought and Life* is the first comprehensive guide to animals in the ancient world, encompassing all aspects of the topic by featuring authoritative chapters on 33 topics by leading scholars in their fields. As well as an introduction to, and a survey of, each topic, it provides guidance on further reading for those who wish to study a particular area in greater depth. Both the realities and the more theoretical aspects of the treatment of animals in ancient times are covered in chapters which explore the domestication of animals, animal husbandry, animals as pets, Aesop's Fables, and animals in classical art and comedy, all of which closely examine the nature of human-animal interaction. More abstract and philosophical topics are also addressed, including animal communication, early ideas on the origin of species, and philosophical vegetarianism and the notion of animal rights.

Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care

John Wiley & Sons *Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care* is a comprehensive yet practical reference, providing hands-on information essential to veterinarians and veterinary technicians involved in emergency and critical care. Written by an expert team of veterinarians and veterinary technicians, this well-referenced book offers step-by-step protocols for performing advanced emergency and critical care procedures and monitoring techniques. Packed with practical guidance in an easy-to-use format, this book is ideally suited for quick access in emergency rooms or intensive care units. Organized primarily by body system, each chapter covers general principles, indications, equipment, techniques, basic interpretation, troubleshooting, and contraindications. Standardized protocols supply equipment lists and step-by-step instructions throughout, and a companion website offers images from the book in PowerPoint and protocols as downloadable Wordfiles. *Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care* is a valuable resource for any veterinary staff member with an interest in improving the standard of care in emergency and critical care medicine.

Complications in Small Animal Surgery

John Wiley & Sons *Complications in Small Animal Surgery* provides a complete reference to diagnosing, managing, and treating surgical complications, with information following a standardized format for ease of use. • Presents comprehensive information on diagnosing, managing, and preventing surgical complications using an accessible format • Offers a well-defined, thoroughly illustrated format to maximize practical value, with algorithms, tables, practical tips, and many images throughout • Covers common and uncommon complications in all body systems • Serves as a reference to recent literature relevant to each complication • Includes access to a companion website with videos, figures from the book available for download into PowerPoint, and linked references at www.wiley.com/go/griffon/complications

Workforce Needs in Veterinary Medicine

National Academies Press *The U.S. veterinary medical profession contributes to society in diverse ways, from developing drugs and protecting the food supply to treating companion animals and investigating animal diseases in the wild. In a study of the issues related to the veterinary medical workforce, including demographics, workforce supply, trends affecting job availability, and capacity of the*

educational system to fill future demands, a National Research Council committee found that the profession faces important challenges in maintaining the economic sustainability of veterinary practice and education, building its scholarly foundations, and evolving veterinary service to meet changing societal needs. Many concerns about the profession came into focus following the outbreak of West Nile fever in 1999, and the subsequent outbreaks of SARS, monkeypox, bovine spongiform encephalopathy, highly pathogenic avian influenza, H1N1 influenza, and a variety of food safety and environmental issues heightened public concerns. They also raised further questions about the directions of veterinary medicine and the capacity of public health service the profession provides both in the United States and abroad. To address some of the problems facing the veterinary profession, greater public and private support for education and research in veterinary medicine is needed. The public, policymakers, and even medical professionals are frequently unaware of how veterinary medicine fundamentally supports both animal and human health and well-being. This report seeks to broaden the public's understanding and attempts to anticipate some of the needs and measures that are essential for the profession to fulfill given its changing roles in the 21st century.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research

National Academies Press Expanding on the National Research Council's Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

Veterinary Parasitology

John Wiley & Sons The recipient of much praise and acclaim, Veterinary Parasitology is widely considered to be the definitive veterinary parasitology reference for practitioners and students alike. This Fourth Edition has been developed and enhanced into a two-part reference to reflect recent advances in the field, modern teaching practice, and updated parasite taxonomic classification systems. Part One contains expanded individual parasite descriptions using current taxonomic status within three new chapters on Helminthology, Protozoology and Entomology. Further updated chapters are provided on: The laboratory diagnosis of parasitism, Antiparasitics, The epidemiology of parasitic diseases, and Host resistance to parasitic diseases. Host species chapters have been retained and expanded and are found in Part Two of the edition. KEY FEATURES Tailored for those directly involved in the diagnosis, treatment and control of parasitic diseases of domestic animals Compatible with the diversity of current parasitology teaching modules – both for teaching parasite systematics and diseases on a host-organ basis Offers the most detailed parasite descriptions available today for teachers, research groups, veterinarians in practice and in government service, and others involved in aspects of parasitic disease Thoroughly revised and restructured to reflect the most up-to-date advancements in the field, Veterinary Parasitology, Fourth Edition, enhances its stellar reputation as the gold standard reference text for the global veterinary profession.

Hair Loss Disorders in Domestic Animals

John Wiley & Sons Hair Loss Disorders in Domestic Animals is an in-depth reference on the pathomechanisms and clinical approaches of all skin diseases in domestic animals that have hair loss as the predominant clinical feature. It presents both basic and clinically-relevant knowledge on alopecic disease in animals. This text is a one-of-a-kind resource providing cutting-edge coverage of the physiology and pathology of hair follicles. Disease-specific chapters include: a detailed description of the disease entity, etiology, pathogenesis, clinical and histopathological diagnosis and treatment modalities.

Veterinary Anesthetic and Monitoring Equipment

John Wiley & Sons Veterinary Anesthetic and Monitoring Equipment is the first veterinary-specific resource solely dedicated to anesthetic and monitoring equipment used in clinical practice. Offers a practical guide to anesthetic and monitoring equipment commonly used in veterinary medicine Provides clinically oriented guidance to troubleshooting problems that may occur Discusses general principles applicable to any equipment found in the practice Presents information associated with novel anesthetic equipment and monitors

Critical Needs for Research in Veterinary Science

National Academies Press Research in veterinary science is critical for the health and well-being of animals, including humans. Food safety, emerging infectious diseases, the development of new therapies, and the possibility of bioterrorism are examples of issues addressed by veterinary science that have an impact on both human and animal health. However, there is a lack of scientists engaged in veterinary research. Too few veterinarians pursue research careers, and there is a shortage of facilities and funding for conducting research. This report identifies questions and issues that veterinary research can help to address, and discusses the scientific expertise and infrastructure needed to meet the most critical research needs. The report finds that there is an urgent need to provide adequate resources for investigators, training programs, and facilities involved in veterinary research.

Intellectual Property

Valuation, Exploitation, and Infringement Damages, 2017 Cumulative Supplement

John Wiley & Sons A comprehensive reference for valuation of intangible assets Intellectual Property, Valuation, Exploitation, and Infringement Damages provides in-depth, up-to-date guidance about the valuation of intangible assets. Covering patents, trademarks, copyrights, trade secrets, and more, this book describes the standards, best practices, and case law relating to valuation, licensing, and infringement damages. Intellectual property strategies are examined from a business economic standpoint, and analytical models are provided to streamline the calculation of valuations, licensing royalty rates, and fair equity splits in joint venture arrangements. Designed to ease the task of attaching monetary value to intangible assets, this invaluable reference includes extensive practical guidance including sample royalty rate information, diffusion sales forecasting models, detailed treatment of investment rate of return, and the valuation of early-stage technology. Intellectual property is rapidly becoming a major profit center for an increasing number of companies, who may invest billions of dollars in development of an irreplaceable asset. This book provides an authoritative reference for exploiting this property to its fullest extent, and quantifying its actual economic value. Now that intangible assets are becoming the cornerstones of corporations, applying a logical, analytical approach to valuation has become more important than ever. Intellectual Property, Valuation, Exploitation, and Infringement Damages provides expert guidance for each stage of the asset's life cycle, with recommended procedures and strategies grounded in case law and real-world practice.

Equine Veterinary Nursing

John Wiley & Sons The breadth and depth of expertise essential for equine veterinary nursing today is provided in this definitive textbook. Thoroughly revised and updated in its second edition, and now fully illustrated in colour. This book covers the content of the ever-expanding equine nursing syllabus, while still succinctly covering all the basics that veterinary nurses specialising in other species need to know. The key subjects included are: basic equine management, medical and surgical equine nursing, nutrition, reproduction and foal care, emergency first aid, and the theory underpinning these and other important topics. Equine Veterinary Nursing Second Edition is presented in a clear and user-friendly manner, appropriate for all those involved in equine nursing. A practical approach is used throughout and procedures are illustrated with a large number of line diagrams and clinical photographs. It is an essential manual for all student and qualified equine veterinary nurses and all those involved in the care of horses. KEY FEATURES Includes a new chapter on the equine nurse's professional responsibilities Major revisions to the chapters on diagnostic imaging and surgical nursing to reflect advances in technology and techniques All information on health and safety management updated in keeping with new regulations Authors include both vets and experienced equine nurses Endorsed by the British Equine Veterinary Association "With the increasing demands of equine practice has come the need for well trained and competent equine nurses. There have been significant improvements in and expansion of the equine Veterinary Nurse training syllabus over the past few years to meet these demands. This new and updated edition of Equine Veterinary Nursing covers all aspects of the new syllabus with well written and illustrated chapters from a wide range of knowledgeable and experienced authors. The British Equine Veterinary Association is pleased to endorse this text as a 'must have' for all trainee equine veterinary nurses and their training practices." - Deidre M Carson BVSc(Syd) MRCVS Immediate Past President, BEVA

Vaccine Design

Methods and Protocols, Volume 2: Vaccines for Veterinary Diseases

Humana Press This text provides a practical guide providing step-by-step protocol to design and develop vaccines. Chapters detail protocols for developing novel vaccines against infectious bacteria, viruses, fungi, and parasites for humans and animals. Volume 2: Vaccines for Veterinary Diseases includes vaccines for farm animals and fishes, vaccine vectors and production, vaccine delivery systems, vaccine bioinformatics, vaccine regulation and intellectual property. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccine Design: Methods and Protocols, Volume 2: Vaccines for Veterinary Diseases aims to ensure successful results in the further study of this vital field.

Vaccine Design: Methods and Protocols: Volume 1: Vaccines for Human Diseases

Methods in Molecular Biology

Wiggs's Veterinary Dentistry Principles and Practice

John Wiley & Sons *Wiggs's Veterinary Dentistry: Principles and Practice, Second Edition* is a fully updated and expanded new edition of the classic comprehensive reference for veterinary dentistry. Provides current, comprehensive information on veterinary dentistry Encompasses rudimentary tenets of the field as well as advanced techniques Presents the state-of-the-art in veterinary dentistry, with all topics fully updated, revised, and expanded to reflect current knowledge Written by leading veterinary dental specialists and edited by luminaries in the field Includes more images and color throughout to support the text

Statistics for Veterinary and Animal Science

John Wiley & Sons Banish your fears of statistical analysis using this clearly written and highly successful textbook. *Statistics for Veterinary and Animal Science Third Edition* is an introductory text which assumes no previous knowledge of statistics. It starts with very basic methodology and builds on it to encompass some of the more advanced techniques that are currently used. This book will enable you to handle numerical data and critically appraise the veterinary and animal science literature. Written in a non-mathematical way, the emphasis is on understanding the underlying concepts and correctly interpreting computer output, and not on working through mathematical formulae. Key features: Flow charts are provided to enable you to choose the correct statistical analyses in different situations Numerous real worked examples are included to help you master the procedures Two statistical packages, SPSS and Stata, are used to analyse data to familiarise you with typical computer output The data sets from the examples in the book are available as electronic files to download from the book's companion website in ASCII, Excel, SPSS, Stata and RWorkspace formats, allowing you to practice using your own software and fully get to grips with the techniques A clear indication is provided of the more advanced or obscure topics so that, if desired, you can skip them without loss of continuity. New to this edition: New chapter on reporting guidelines relevant to veterinary medicine as a ready reference for those wanting to follow best practice in planning and writing up research New chapter on critical appraisal of randomized controlled trials and observational studies in the published literature: a template is provided which is used to critically appraise two papers New chapter introducing specialist topics: ethical issues of animal investigations, spatial statistics, veterinary surveillance, and statistics in molecular and quantitative genetics Expanded glossaries of notation and terms Additional exercises and further explanations added throughout to make the book more comprehensive. Carrying out statistical procedures and interpreting the results is an integral part of veterinary and animal science. This is the only book on statistics that is specifically written for veterinary science and animal science students, researchers and practitioners.

WHO Guidelines on Tularaemia

Epidemic and Pandemic Alert and Response

World Health Organization Tularaemia is a bacterial zoonotic disease of the northern hemisphere. The bacterium (*Francisella tularensis*) is highly virulent for humans and a range of animals such as rodents, hares and rabbits. Humans can infect themselves by direct contact with infected animals, by arthropod bites, by ingestion of contaminated water or food, or by inhalation of infective aerosols. There is no human-to-human transmission. In addition to its natural occurrence *F. tularensis* evokes great concern as a potential bioterrorism agent. *F. tularensis* subspecies *tularensis* is one of the most infectious pathogens known in human medicine. In order to avoid laboratory-associated infection safety measures are needed and consequently clinical laboratories do not generally accept specimens for culture. However, since clinical management of cases depends on early recognition there is an urgent need for diagnostic services. This first edition of WHO Guidelines on tularaemia provides background information on the disease, describes the current best practices for its diagnosis and treatments in humans, suggests measures to be taken in case of epidemics and provides guidance on how to handle *F. tularensis* in the laboratory. The target audience includes clinicians, laboratory personnel, public health workers, veterinarians and any other person with an interest in zoonoses.

Understanding Animal Welfare

The Science in its Cultural Context

John Wiley & Sons "This is a delightful book, full of interesting aspects of animal welfare. An excellent guide to the academic study of animal welfare science." —Marian Stamp Dawkins, Department of Zoology, University of Oxford *Understanding Animal Welfare: The Science in its Cultural Context* takes a completely fresh and thought-provoking approach. It is essential reading for anyone interested, studying or currently working in the fascinating field of animal welfare science. David Fraser places modern-day welfare issues within their historical framework by tracing the evolving ideas that led to current thinking. He also highlights some intriguing issues relating to the contradiction inherent in the term 'animal welfare science' and the practical problem of how to assess emotional states in animals. Special features: Encompasses ideas from a variety of disciplines to give a broad perspective of the topic. Discusses methods of measuring animal welfare and their strengths and limitations. Examines contemporary debates and applications of the science to policy issues. "... an impressive historical narrative of the genesis and growth of animal welfare as a scientific discipline.... The book will be invaluable for anyone involved with animal welfare issues on an academic level or those involved with the integration of these principles into current care and handling issues facing agriculture, companion, laboratory, wild, or zoo animals." —Carolyn L. Stull, PhD, Veterinary Medicine Extension, School of Veterinary Medicine, University of California, Davis "Fraser offers insights only possible from someone with his considerable experience and understanding." —Dr. Chris Sherwin, Department of Clinical Veterinary Science, University of Bristol This book is part of the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books produced in collaboration between UFAW (The Universities Federation for Animal Welfare), and Wiley-Blackwell provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see www.wiley.com/go/ufaw.

Principles of Veterinary Parasitology

John Wiley & Sons *Principles of Veterinary Parasitology* Principles of Veterinary Parasitology is a student-friendly introduction to veterinary parasitology. Written primarily to meet the immediate needs of veterinary students, this textbook outlines the essential parasitological knowledge needed to underpin clinical practice. Conceptual relationships between parasitic organisms, their biology and the diseases they cause are clearly illustrated. Help boxes and practical tips are included throughout alongside a wealth of colour photographs, drawings and life-cycle diagrams. Organised taxonomically with additional host-orientated chapters and focussing on parasites that commonly cause animal or zoonotic disease, welfare problems or economic losses, students worldwide will benefit from this straightforward and easy to comprehend introduction to veterinary parasitology. KEY FEATURES An easy to navigate textbook, providing information essential for clinical studies Full colour throughout, with photographs, diagrams, life-cycles and help boxes for visual learners A companion website including a pronunciation guide, self-assessment questions and further reading lists This book is accompanied by a companion website: WWW.wiley.com/go/jacobs/principles-veterinary-parasitology The website includes: Glossary Parasites listed by host and body system Pronunciation guide Parasite recognition: fleas, flies, worms and worm eggs Revision questions and answers Further reading list: books, articles and websites Powerpoint files of all diagrams for downloading

Stem Cells

Scientific Facts and Fiction

Academic Press The second edition of *Stem Cells: Scientific Facts and Fiction* provides the non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary science and medicine. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on "organs on chips" and adult progenitor cells. In the past decades our understanding of stem cell biology has increased tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapy Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice Richly illustrated to assist in understanding how research is done and the current hurdles to clinical practice

Veterinary Immunology

Elsevier Health Sciences 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.

Mollison's Blood Transfusion in Clinical Medicine

John Wiley & Sons Mollison's Blood Transfusion in Clinical Medicine is an icon in the field of transfusion and the first edition was published in 1951. The book arose from the concept of the transfusionist, as both scientist and expert consultant. For many years, this text has provided the primary, and often the sole, reference for detailed information and practical experience in blood transfusion. The book is completely revised and updated throughout to include the latest advances and developments in the field.

The Saint-Chopra Guide to Inpatient Medicine

Oxford University Press THE DEFINITIVE GUIDE TO INPATIENT MEDICINE, UPDATED AND EXPANDED FOR A NEW GENERATION OF STUDENTS AND PRACTITIONERS A long-awaited update to the acclaimed Saint-Frances Guides, the Saint-Chopra Guide to Inpatient Medicine is the definitive practical manual for learning and practicing inpatient medicine. Its end-to-end coverage of the specialty focuses on both commonly encountered problems and best practices for navigating them, all in a portable and user-friendly format. Composed of lists, flowcharts, and "hot key" clinical insights based on the authors' decades of experience, the Saint-Chopra Guide ushers clinicians through common clinical scenarios from admission to differential diagnosis and clinical plan. It will be an invaluable addition -- and safety net -- to the repertoire of trainees, clinicians, and practicing hospitalists at any stage of their career.

Veterinary Vaccinology

Elsevier Science Limited Hardbound. Vaccination is widely recognised as one of the most efficient tools in public health, showing obvious cost-benefit advantages for all target populations involved. Vaccines in the veterinary field can contribute greatly to the welfare of domestic and wild animals and, indirectly, to environmental protection. The aim of animal vaccination will increasingly be to prevent dissemination of zoonoses (such as rabies, taeniosis, salmonellosis, etc.) rather than to protect the animal itself, especially when infection or infestation is not harmful to the reservoir (cysticercosis). At present there is insufficient overall understanding of some important aspects of veterinary vaccines. Literature on the subject exists, but often consists of either research communications or 'catalogue-type' descriptive works. This unique book fills a gap within the already available literature. The scope is broad and covers all aspects of vaccines and vaccination in the

Supramolecular Chemistry

John Wiley & Sons Supramolecular chemistry is 'chemistry beyond the molecule' - the chemistry of molecular assemblies and intermolecular bonds. It is one of today's fastest growing disciplines, crossing a range of subjects from biological chemistry to materials science; and from synthesis to spectroscopy. Supramolecular Chemistry is an up-to-date, integrated textbook that tells the newcomer to the field everything they need to know to get started. Assuming little in the way of prior knowledge, the book covers the concepts behind the subject, its breadth, applications and the latest contemporary thinking in the area. It also includes coverage of the more important experimental and instrumental techniques needed by supramolecular chemists. The book has been thoroughly updated for this second edition. In addition to the strengths of the very popular first edition, this comprehensive new version expands coverage into a broad range of emerging areas. Clear explanations of both fundamental and nascent concepts are supplemented by up-to-date coverage of exciting emerging trends in the literature. Numerous examples and problems are included throughout the book. A system of "key references" allows rapid access to the secondary literature, and of course comprehensive primary literature citations are provided. A selection of the topics covered is listed below. Cation, anion, ion-pair and molecular host-guest chemistry Crystal engineering Topological entanglement Clathrates Self-assembly Molecular devices Dendrimers Supramolecular polymers Microfabrication Nanoparticles Chemical emergence Metal-organic frameworks Gels Ionic liquids Supramolecular catalysis Molecular electronics Polymorphism Gas sorption Anion-pinteractions Nanochemistry Supramolecular Chemistry is a must for both students new to the field and for experienced researchers wanting to explore the origins and wider context of their work. Review: "At just under 1000 pages, the second edition of Steed and Atwood's Supramolecular Chemistry is the most comprehensive overview of the area available in textbook form...highly recommended." —Chemistry World, August 2009

The Plague Year

America in the Time of COVID

Knopf Beginning with the absolutely critical first moments of the outbreak in China, and ending with an epilogue on the vaccine rollout and the unprecedented events between the election of Joseph Biden and his inauguration, Lawrence Wright's The Plague Year surges forward with essential information--and fascinating historical parallels--examining the medical, economic, political, and social ramifications of the COVID-19 pandemic.

The Intellectual Powers

A Study of Human Nature

John Wiley & Sons The Intellectual Powers is a philosophical investigation into the cognitive and cogitative powers of mankind. It develops a connective analysis of our powers of consciousness, intentionality, mastery of language, knowledge, belief, certainty, sensation, perception, memory, thought, and imagination, by one of Britain's leading philosophers. It is an essential guide and handbook for philosophers, psychologists, and cognitive neuroscientists. The culmination of 45 years of reflection on the philosophy of mind, epistemology, and the nature of the human person No other book in epistemology or philosophy of psychology provides such extensive overviews of consciousness, self-consciousness, intentionality, mastery of a language, knowledge, belief, memory, sensation and perception, thought and imagination Illustrated with tables, tree-diagrams, and charts to provide overviews of the conceptual relationships disclosed by analysis Written by one of Britain's best philosophical minds A sequel to Hacker's Human Nature: The Categorical Framework An essential guide and handbook for all who are working in philosophy of mind, epistemology, psychology, cognitive science, and cognitive neuroscience

Thomas' Hematopoietic Cell Transplantation, 2 Volume Set

Stem Cell Transplantation

John Wiley & Sons Fully revised for the fifth edition, this outstanding reference on bone marrow transplantation is an essential, field-leading resource. Extensive coverage of the field, from the scientific basis for stem-cell transplantation to the future direction of research Combines the knowledge and expertise of over 170 international specialists across 106 chapters Includes new chapters addressing basic science experiments in stem-cell biology, immunology, and tolerance Contains expanded content on the benefits and challenges of transplantation, and analysis of the impact of new therapies to help clinical decision-making Includes a fully searchable Wiley Digital Edition with downloadable figures, linked references, and more References for this new edition are online only, accessible via the Wiley Digital Edition code printed inside the front cover or at www.wiley.com/go/forman/hematopoietic.

Saunders Manual of Small Animal Practice - E-Book

Elsevier Health Sciences Meticulously organized by body system for optimal readability and ease of reference, the 3rd edition of this best-selling manual provides quick, comprehensive, and practical guidance on evaluating and managing a full range of common medical and surgical conditions encountered in small animal practice. Medical chapters discuss etiology, clinical signs, diagnoses and treatment, while surgical chapters discuss anatomy, preoperative considerations, procedures and postoperative care. It also contains an entire section devoted to avian and exotic pets and a comprehensive drug formulary. A consistent outline format provides easy access to information on etiology, clinical signs, diagnosis, and treatment for each disease or disorder, as well as anatomy, preoperative conditions, techniques, and postoperative care for surgical procedures. Key Points draw attention to helpful tips and key concepts. Includes a comprehensive section covering diagnosis, treatment, and surgery for avian and exotic pets. Features new chapters that cover key topics such as physical therapy and rehabilitation, pain management, vaccination guidelines, and syncope. Includes the latest information on drugs and clinical equipment throughout.

Handbook of Human Immunology, Second Edition

CRC Press Since the publication of the first edition of the Handbook of Human Immunology in 1997, major scientific achievements have directly contributed to an increased understanding of the complexities of the human immune system in health and disease. Whether as a result of the sequencing of the entire human genome, or of technological advancements, several new components of the immune system have been revealed, along with new technologies for their measurement and evaluation. Major breakthroughs in the field include an increase in the number of recognized "clusters of differentiation" on the surface of leukocytes and associated cells, the establishment of a chemokine and chemokine receptor nomenclature system, the discovery of more than 30 lymphokines, and humanized monoclonal antibody therapy as a staple of pharmacologic armamentarium Modeling the previous edition, the text begins with an overview of the immune system, focusing on the role of cell

receptors, accessory molecules, and cytokines in immune responses and immunological disorders. It then presents a practical, easy-to-read chapter on "statistics in immunological testing"—an invaluable asset for interpreting test results, validating new tests, and developing reference ranges. Simultaneously, the text emphasizes clinically relevant immunological parameters and clarifies the basic principles underlying immune system assays, and applications and interpretations of immune tests. A complete guide to molecular and cellular immunology for practicing clinicians, clinical laboratory professionals, and students, this resource combines basic explanations of laboratory tests with more than 100 tables full of references, and up-to-date information on new developments in immunogenetics.

Green Sustainable Process for Chemical and Environmental Engineering and Science Biosurfactants for the Bioremediation of Polluted Environments

Elsevier [Green Sustainable Process for Chemical and Environmental Engineering and Science: Biosurfactants for the Bioremediation of Polluted Environments](#) explores the use of biosurfactants in remediation initiatives, reviewing knowledge surrounding the creation and application of biosurfactants for addressing issues related to the release of toxic substances in ecosystems. Sections cover their production, assessment and optimization for bioremediation, varied pollutant degradation applications, and a range of contaminants and ecological sites. As awareness and efforts to develop greener products and processes continues to grow, biosurfactants are garnering more attention for the potential roles they can play in reducing the use and production of more toxic products. Drawing on the knowledge of its expert team of global contributors, this book provides useful insights for all those currently or potentially interested in developing or applying biosurfactants in their own work. Provides an accessible introduction to biosurfactant chemistry Highlights the optimization, modeling, prediction and kinetics of key factors supporting biosurfactant-enhanced biodegradation processes Explores a wide range of biosurfactant applications for remediation and degradation of pollutants

Challenges to Tackling Antimicrobial Resistance Economic and Policy Responses Economic and Policy Responses

OECD Publishing [Antimicrobial resistance \(AMR\) is a biological mechanism whereby a microorganism evolves over time to develop the ability to become resistant to antimicrobial therapies such as antibiotics. The drivers of and potential solutions to AMR are complex, often spanning multiple sectors. The internationally recognized response to AMR advocates for a 'One Health' approach, which requires policies to be developed and implemented across human, animal, and environmental health.](#)

A Companion to Intellectual History

John Wiley & Sons [A Companion to Intellectual History](#) provides an in-depth survey of the practice of intellectual history as a discipline. Forty newly-commissioned chapters showcase leading global research with broad coverage of every aspect of intellectual history as it is currently practiced. Presents an in-depth survey of recent research and practice of intellectual history Written in a clear and accessible manner, designed for an international audience Surveys the various methodologies that have arisen and the main historiographical debates that concern intellectual historians Pays special attention to contemporary controversies, providing readers with the most current overview of the field Demonstrates the ways in which intellectual historians have contributed to the history of science and medicine, literary studies, art history and the history of political thought Named Outstanding Academic Title of 2016 by Choice Magazine, a publication of the American Library Association

The Fourth Industrial Revolution

Currency [Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement](#)

Emerging Swine Viruses

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