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Marek's Disease-Fred Davison 2004-06-30 Marek's disease is a form of cancer of poultry caused by an important herpesvirus (MDV). It continues to be a threat to poultry health and welfare and worldwide losses are estimated to be US\$ 1 billion annually. Marek's Disease provides a timely review of the problems of Marek's disease with descriptions of the complex viral life cycle, how MDV targets different types of white blood cells, and details of the virus structure, its genes and proteins. The multiplicity of factors contributing to susceptibility is explored in detail Vaccination - the problems arising from current vaccination strategies and how these can be improved and made sustainable in future The lessons learned in the control of MD over the past 30 years, and how we can use MD as a model for other animal and human diseases is discussed

Marek's Disease-Kanji Hirai 2001 Marek's disease virus (MDV) is a herpesvirus which causes a lymphoproliferative disorder of the domestic chicken worldwide. This serious economical problem caused by MDV was mostly solved by development of an effective vaccine against MDV. The development of live vaccines against the disease is remarkable as it has led to the first example of a commercially available vaccine against cancer as well as against diseases caused by herpesviruses.This volume gives an overview on many aspects of MDV research and summarizes recent advances in the field. The topics include the history, biology,and molecular biology of MDV, pathogenesis, vaccinal immunity, immune response, genetic resistance and development of recombinant polyvalent vaccines. It is hoped that this volume will make an important contribution towards the control of infectious diseases.

Avian Immunology-Karel A. Schat 2012-12-02 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

Bulletin of the Veterinary Institute in Pulawy- 2009

The Pathogenicity of QMDV in SPF Chickens and Japanese Quail (Coturnix Coturnix Japonica) and Vertical Transmission of JM and RBIB in Japanese Quail-Kelly Lynn Crucillo 2008

Diseases of Poultry, 2 Volume Set-Martine Boulianne 2019-11-19 The most complete and definitive reference to all aspects of poultry diseases, Diseases of Poultry, Fourteenth Edition has been fully revised and updated to offer a comprehensive survey of current knowledge. Updates the definitive reference of poultry health and disease Provides more clinically relevant information on management of specific diseases, contributed by clinical poultry veterinarians Offers information on disease control in organic and antibiotic-free production Presents more concise, streamlined chapters for ease of use Incorporates advances in the field, from new diagnostic tools and information to changes brought about by the increasing globalization and the re-emergence of zoonotic pathogens

Diseases of Poultry- 2013-07-16 Diseases of Poultry is the most comprehensive reference for all aspects of poultry health and diseases, including pathogenesis, diagnostics, epidemiology, and control methods. Published in partnership with the American Association of Avian Pathologists, the Thirteenth Edition remains the international definitive reference, adding newer diagnostic methods and a new chapter on the emerging importance of zoonotic infections for poultry pathogens. Other updates include new high-quality photographs, additional discussion of conceptual operational biosecurity and disease control in organic production systems, and a greater emphasis throughout on the differences in disease incidence and treatments for the United States and other areas around the globe. Organized logically by disease type, the book offers detailed coverage of the history, etiology, pathobiology, diagnosis, and intervention strategies, as well as the economic and public health significance, for an exhaustive list of common and uncommon diseases. Diseases of Poultry, 13th Edition is an essential purchase for poultry veterinarians, veterinary diagnosticians, poultry scientists, students specializing in poultry health, and government officials who deal with poultry health in regulatory climate.

Marek's Disease-Fred Davison 2004-09-30 Marek's disease is a form of cancer of poultry caused by an important herpesvirus (MDV). It continues to be a threat to poultry health and welfare and worldwide losses are estimated to be US\$ 1 billion annually. Marek's Disease provides a timely review of the problems of Marek's disease with descriptions of the complex viral life cycle, how MDV targets different types of white blood cells, and details of the virus structure, its genes and proteins. The multiplicity of factors contributing to susceptibility is explored in detail Vaccination - the problems arising from current vaccination strategies and how these can be improved and made sustainable in future The lessons learned in the control of MD over the past 30 years, and how we can use MD as a model for other animal and human diseases is discussed

Apoptosis in the Thymus of Chickens Infected with Marek's Disease Virus-Craig S. Blackmore 2008

Marek's Disease-L. N. Payne 1985-01-01

Proceedings- 2007

Genetics of the Fowl-F. B. Hutt 2003-05 This has been the indispensable companion of chicken breeders since its introduction in 1949. Chapters include the genetics of plumage, egg production, body size, disease resistance, and much more. (Animals/Pets)

Animal Vaccination- 2007

Proceedings of the National Academy of Sciences of the United States of America-National Academy of Sciences (U.S.) 2006

Virus Bioinformatics-Manja Marz 2020-02-21 Virus bioinformatics is evolving and succeeding as an area of research in its own right, representing the interface of virology and computer science. Bioinformatic approaches to investigate viral infections and outbreaks have become central to virology research, and have been successfully used to detect, control, and treat infections of humans and animals. As part of the Third Annual Meeting of the European Virus Bioinformatics Center (EVBC), we have published this Special Issue on Virus Bioinformatics.

Control of Infectious Animal Diseases by Vaccination-Alejandro Schudel 2004 This publication contains important and recent information as well as the history of successful controls of diseases, especially trans-boundary diseases but also parasitic infestations using traditional or marker vaccines. Chief Veterinary Officers, Animal Health regulatory officials, and veterinarians, cattle raising associations and consumer associations, will be helped by the information given in this publication. They will understand the complexity of the decision whether to use and select vaccines from the market or not. In this book, all the partners in the decision-making process for controlling diseases will find an aid for the elimination or eradication of pathogens.

Avian Disease Manual-Martine Boulianne 2013-03-01 Teaching reference for those interested in the major diseases of poultry.

Medical Biochemistry E-Book-John W Baynes 2018-01-03 Now fully revised, this acclaimed textbook efficiently links basic biochemistry with the day-to-day practice of medicine. You will learn basic science concepts and see them illustrated by clinical cases that describe patients you will likely encounter in your clinical training. You will also learn about the use of laboratory tests to diagnose and monitor the most important conditions. Brought to you in a thorough yet accessible manner, this new edition of Medical Biochemistry highlights the latest developments in regulatory and molecular biology, signal transduction, biochemistry and biomarkers of chronic disease, and bioinformatics and the '-omics'. It highlights the most important global medical issues: diabetes mellitus, obesity and malnutrition, cancer and atherosclerotic cardiovascular disease, and addresses the role of nutrition and exercise in medicine. Featuring a team of expert contributors that includes investigators involved in cutting-edge research as well as experienced clinicians, this book offers a unique combination of research and clinical practice tailored to today's integrated courses. Read organ-focused chapters addressing the biochemistry of the bone, kidney, liver, lungs and muscle; and system-focused ones addressing the biochemistry of the immune and endocrine systems, neurochemistry and neurotransmission, and cancer

Combinatorics of Genome Rearrangements-Guillaume Fertin 2009 A comprehensive survey of a rapidly expanding field of combinatorial optimization, mathematically oriented but offering biological explanations when required. From one cell to another, from one individual to another, and from one species to another, the content of DNA molecules is often similar. The organization of these molecules, however, differs dramatically, and the mutations that affect this organization are known as genome rearrangements. Combinatorial methods are used to reconstruct putative rearrangement scenarios in order to explain the evolutionary history of a set of species, often formalizing the evolutionary events that can explain the multiple combinations of observed genomes as combinatorial optimization problems. This book offers the first comprehensive survey of this rapidly expanding application of combinatorial optimization. It can be used as a reference for experienced researchers or as an introductory text for a broader audience. Genome rearrangement problems have proved so interesting from a combinatorial point of view that the field now belongs as much to mathematics as to biology. This book takes a mathematically oriented approach, but provides biological background when necessary. It presents a series of models, beginning with the simplest (which is progressively extended by dropping restrictions), each constructing a genome rearrangement problem. The book also discusses an important generalization of the basic problem known as the median problem, surveys attempts to reconstruct the relationships between genomes with phylogenetic trees, and offers a collection of summaries and appendixes with useful additional information.

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Application of Genetics and Genomics in Poultry Science-Xiaojun Liu 2018-09-05 Genetics and genomics in poultry have been the most rapidly advancing subjects since the completion of the chicken genome sequence in 2004 and have been extensively used to understand the genetic determinants of complex traits. This book intends to provide readers with a comprehensive overview of the current progress in the application of genetic and genomic science in the poultry field. The contents cover genetic variation detection, selection methods for breeding, transgenesis and genome editing, genetic basis of disease resistance, control of gene expression and regulation, reproduction and meat quality, etc. The book should prove useful to researchers and students working in related fields.

Bibliography of Agriculture- 1991-10

Why Don't Students Like School?-Daniel T. Willingham 2009-06-10 Easy-to-apply, scientifically-based approaches for engaging students in the classroom Cognitive

scientist Dan Willingham focuses his acclaimed research on the biological and cognitive basis of learning. His book will help teachers improve their practice by explaining how they and their students think and learn. It reveals the importance of story, emotion, memory, context, and routine in building knowledge and creating lasting learning experiences. Nine, easy-to-understand principles with clear applications for the classroom Includes surprising findings, such as that intelligence is malleable, and that you cannot develop "thinking skills" without facts How an understanding of the brain's workings can help teachers hone their teaching skills "Mr. Willingham's answers apply just as well outside the classroom. Corporate trainers, marketers and, not least, parents -anyone who cares about how we learn-should find his book valuable reading." —Wall Street Journal

Viruses: Essential Agents of Life-Günther Witzany 2012-11-13 A renaissance of virus research is taking centre stage in biology. Empirical data from the last decade indicate the important roles of viruses, both in the evolution of all life and as symbionts of host organisms. There is increasing evidence that all cellular life is colonized by exogenous and/or endogenous viruses in a non-lytic but persistent lifestyle. Viruses and viral parts form the most numerous genetic matter on this planet.

—Wall Street Journal

New Diagnostic Technology-Philippe Vannier 2006 Technological advances have resulted in the development of several new biochemistry-based test procedures such as DNA micro-arrays, rapid sequencing and multiple applications of polymerase chain reaction. The limitations of such tests and the problems of standardization and validation related to their use for the detection of agents and toxins, diagnosis of human and animal diseases, and quality control of human and veterinary biological products must be considered. Practical examples of the use of these new technologies, but also the difficulties, limits and uncertainties encountered in their application need to be shared. This volume presents the proceedings of a conference in Saint-Malo, France, held to facilitate discussion between government authorities, industry, scientists and other users of these new techniques. Information on the principles of these novel methods, the need for standardization and validation, applications in diagnosis and surveillance, certainties and uncertainties in agent or toxin identification as well as examples of quality control of human and veterinary biological products were addressed. Conclusions and recommendations concerning the development and standardization of these new technologies were developed by the participants and are published in these proceedings. Professionals involved in biological standardization, diagnosis, and human and animal health programs should find this to be a very valuable book.

—Wall Street Journal

Institute for Animal Health-Institute for Animal Health (Great Britain) 2004

—Wall Street Journal

Pediatric Dentistry - E-Book-Arthur Nowak 2018-05-10 Provide superior oral and dental care to children of all ages! Pediatric Dentistry: Infancy through Adolescence, 6th Edition provides comprehensive coverage of oral care for infants, children, teenagers, and medically compromised pediatric patients. Organized by age group, the text covers examination, diagnosis, and treatment planning, as well as topics such as the prevention of dental disease, traumatic injuries, orthodontics, and restorative dentistry. UNIQUE! Age-specific organization separates sections and chapters by age group to cover specific changes the child experiences physically, cognitively, emotionally, and socially. Fundamentals of Pediatric Dentistry section covers basic information on children of all ages, including topics such as local and systemic diseases, pediatric physiology, cariology, pain control, and medical emergencies. Coverage of current trends and challenges emphasizes the prevention of dental diseases and reflects pediatric dentistry as it is practiced today. UPDATED coverage of caries risk assessment in children reflects the evolution of evidence-based oral health care. More than 1,000 full-color photos and illustrations show dental conditions and treatments. NEW chapters cover cariology, pain control, and cleft lip and palate; other updates include infant oral health, pit and fissure sealants, regenerative endodontics, and the risk factors surrounding the transition from adolescence to adulthood. NEW! Greater diversity of contributors includes expert perspectives from all over the world.

—Wall Street Journal

The Stigma of Mental Illness - End of the Story?-Wolfgang Gaebel 2016-08-10 This book makes a highly innovative contribution to overcoming the stigma and discrimination associated with mental illness – still the heaviest burden both for those afflicted and those caring for them. The scene is set by the presentation of different fundamental perspectives on the problem of stigma and discrimination by researchers, consumers, families, and human rights experts. Current knowledge and practice used in reducing stigma are then described, with information on the programmes adopted across the world and their utility, feasibility, and effectiveness. The core of the volume comprises descriptions of new approaches and innovative programmes specifically designed to overcome stigma and discrimination. In the closing part of the book, the editors – all respected experts in the field – summarize some of the most important evidence- and experience-based recommendations for future action to successfully rewrite the long and burdensome ‘story’ of mental illness stigma and discrimination.

—Wall Street Journal

The Biopsychosocial Model of Health and Disease-Derek Bolton 2019-03-28 This open access book is a systematic update of the philosophical and scientific foundations of the biopsychosocial model of health, disease and healthcare. First proposed by George Engel 40 years ago, the Biopsychosocial Model is much cited in healthcare settings worldwide, but has been increasingly criticised for being vague, lacking in content, and in need of reworking in the light of recent developments. The book confronts the rapid changes to psychological science, neuroscience, healthcare, and philosophy that have occurred since the model was first proposed and addresses key issues such as the model’s scientific basis, clinical utility, and philosophical coherence. The authors conceptualise biology and the psychosocial as in the same ontological space, interlinked by systems of communication-based regulatory control which constitute a new kind of causation. These are distinguished from physical and chemical laws, most clearly because they can break down, thus providing the basis for difference between health and disease. This work offers an urgent update to the model’s scientific and philosophical foundations, providing a new and coherent account of causal interactions between the biological, the psychological and social.

—Wall Street Journal

Elements of Causal Inference-Jonas Peters 2017-11-22 The mathematization of causality is a relatively recent development, and has become increasingly important in data science and machine learning. This book offers a self-contained and concise introduction to causal models and how to learn them from data. After explaining the need for causal models and discussing some of the principles underlying causal inference, the book teaches readers how to use causal models: how to compute intervention distributions, how to infer causal models from observational and interventional data, and how causal ideas could be exploited for classical machine learning problems. All of these topics are discussed first in terms of two variables and then in the more general multivariate case. The bivariate case turns out to be a particularly hard problem for causal learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing statistical asymmetries between cause and effect to be highly instructive, and they report on their decade of intensive research into this problem. The book is accessible to readers with a background in machine learning or statistics, and can be used in graduate courses or as a reference for researchers. The text includes code snippets that can be copied and pasted, exercises, and an appendix with a summary of the most important technical concepts.

—Wall Street Journal

New Realities in Foreign Affairs-Volker Stanzel 2019-07-08 Moderne Diplomatie wirkt heute in viele Bereiche des modernen Lebens hinein. Sie ist zugleich selbst neuen Einflüssen ausgesetzt. Faktoren, die unsere Gesellschaften verändern, verändern auch unser Regierungshandeln, auch in der Außenpolitik, seien es Digitalisierung, emotionalisierte Sensibilitäten unserer Öffentlichkeiten oder nicht-staatliche internationale Akteure. Derartige Entwicklungen müssen von der Diplomatie aufgenommen werden, damit sie weiter als Instrument einer Regierung funktionieren kann. Regierungen sollten Wege finden, zwischen den neuen Bedürfnissen der Gesellschaft und den Notwendigkeiten legitimen Regierungshandelns zu vermitteln. Das Ziel sollte sein, als souveräner Staat handeln zu können und

zugleich das Potential der tiefgreifenden gesellschaftlichen Veränderungen zu nutzen. Mit Beiträgen von Volker Stanzel, Sascha Lohmann, Andrew Cooper, Christer Jönsson, Corneliu Bjola, Emillie V. de Keulenaar, Jan Melissen, Karsten D. Voigt, Kim B. Olsen, Hanns W. Maull und R. S. Zaharna

—Wall Street Journal

Recent Advances in Animal Virology-Yashpal Singh Malik 2019-11-14 This book discusses the prominence and implication of the viral diseases that are a major threat to animals around the globe. A number of these diseases have also shown links with human populations, which has implications for public health. This book offers detailed and up-to-date information on viral diseases in livestock and poultry that were and/or are still a problem. Including cutting-edge developments, it also highlights several landmark contributions in the field of virology from India. Additionally, the book features tables and figures showing important clinical data and recommendations, with references for further information. It also explores the economic impact of viral diseases for farmers and the livestock industry, providing several examples. Further, it presents the latest information on viral diseases in global context, with a focus on state-of-art, molecular tools for the development of diagnostics, prophylactics and therapeutics. Lastly, the book also describes the challenges posed by the emerging and transboundary viral infections and our preparedness to counter them.

—Wall Street Journal

Epidemiology, Diagnosis, and Control of Poultry Parasites-Anders Permin 1998

—Wall Street Journal

National Poultry Digest- 1983

—Wall Street Journal

The Mating Mind-Geoffrey Miller 2011-12-21 At once a pioneering study of evolution and an accessible and lively reading experience, The Mating Mind marks the arrival of a prescient and provocative new science writer. Psychologist Geoffrey Miller offers the most convincing—and radical—explanation for how and why the human mind evolved. Consciousness, morality, creativity, language, and art: these are the traits that make us human. Scientists have traditionally explained these qualities as merely a side effect of surplus brain size, but Miller argues that they were sexual attractors, not side effects. He bases his argument on Darwin’ s theory of sexual selection, which until now has played second fiddle to Darwin’ s theory of natural selection, and draws on ideas and research from a wide range of fields, including psychology, economics, history, and pop culture. Witty, powerfully argued, and continually thought-provoking, The Mating Mind is a landmark in our understanding of our own species.

—Wall Street Journal

Vaccines for Pandemic Influenza-Richard W Compans 2009-09-18 Recent years have seen unprecedented outbreaks of avian influenza A viruses. In particular, highly pathogenic H5N1 viruses have not only resulted in widespread outbreaks in domestic poultry, but have been transmitted to humans, resulting in numerous fatalities. The rapid expansion in their geographic distribution and the possibility that these viruses could acquire the ability to spread from person to person raises the risk that such a virus could cause a global pandemic with high morbidity and mortality. An effective influenza vaccine represents the best approach to prevent and control such an emerging pandemic. However, current influenza vaccines are directed at existing seasonal influenza viruses, which have little or no antigenic relationship to the highly pathogenic H5N1 strains. Concerns about pandemic preparedness have greatly stimulated research activities to develop eff- tive vaccines for pandemic influenza viruses, and to overcome the limitations inh- ent in current approaches to vaccine production and distribution. These limitations include the use of embryonated chicken eggs as the substrate for vaccine prod- tion, which is time-consuming and could involve potential biohazards in growth of new virus strains. Other limitations include the requirement that the current inac- vated influenza vaccines be administered using needles and syringes, requiring trained personnel, which could be a bottleneck when attempting to vaccinate large populations in mass campaigns. In addition, the current inactivated vaccines that are delivered by injection elicit limited protective immunity in the upper respiratory tract where the infection process is initiated.

—Wall Street Journal

The Expanding Circle-Peter Singer 2011-04-18 What is ethics? Where do moral standards come from? Are they based on emotions, reason, or some innate sense of right and wrong? For many scientists, the key lies entirely in biology—especially in Darwinian theories of evolution and self-preservation. But if evolution is a struggle for survival, why are we still capable of altruism? In his classic study The Expanding Circle, Peter Singer argues that altruism began as a genetically based drive to protect one’s kin and community members but has developed into a consciously chosen ethic with an expanding circle of moral concern. Drawing on philosophy and evolutionary psychology, he demonstrates that human ethics cannot be explained by biology alone. Rather, it is our capacity for reasoning that makes moral progress possible. In a new afterword, Singer takes stock of his argument in light of recent research on the evolution of morality.

—Wall Street Journal

Proceedings ... National Meeting on Poultry Health and Condemnations- 1988

—Wall Street Journal

Viruses, Evolution, and Cancer-Edouard Kurstak 1974 Viruses, Evolution and Cancer: Basic Considerations focuses on comparative biology and evolutionary aspects of DNA and RNA oncogenic viruses. Organized into seven parts, this book begins with a discussion on the host-cell-virus relationships. Some chapters follow that discuss the comparative aspects of DNA and RNA oncogenic viruses. This work also elucidates the effects of oncogenic viruses on cell surface metabolism. Other chapters explore the comparative viral oncology, comparative immunology of oncogenic viruses, and evolution of viruses. This book will be an invaluable material both to tho ...

—Wall Street Journal

Virus-Induced Immunosuppression-Steven Specter 2012-12-06 It is now widely acknowledged that at the beginning of this century Claude von Pirquet first pointed out that a viral disease, i. e. , measles, resulted in an anergy or depression of preexisting immune response, namely, delayed continuous hypersensitivity to PPD derived from Mycobacterium tuberculosis. Thereafter ob servations that viral infections may result in immunosuppression have been recorded by many clinicians and infectious disease investigators for six or seven decades. Nevertheless, despite sporadic reports that infectious diseases caused by viruses may result in either transient or prolonged immunodepression, investigation of this phenomenon languished until the mid-1960s, when it was pointed out that a number of experimental retroviral infections of mice with tumor viruses may result in marked immunosuppression. However, it was not until the recognition of the new epidemic of acquired immunodeficiency syn drome (AIDS) caused by the human immunodeficiency virus and related vi ruses that acquired immunodeficiencies associated with virus infection became general knowledge among biomedical investigators as well as the lay public. A number of reviews published during the past decade or so pointed out that numerous viruses may affect humoral and cellular immune responses. Furthermore, expanding knowledge about the nature and mechanisms of both humoral and cellular immunity and pathogenesis of viral infections has pro vided clinical and experimental models for investigating in depth how and why viruses of man and animals profoundly affect immune responses.