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Virus Taxonomy Elsevier
Food-borne viruses are
recognized as a major health

concern, but their distribution, definition, and impact are poorly understood. The volume *Food-Borne Viruses* goes a long way in correcting that problem. Written by leading scientists in the field, it brings together the latest knowledge on these viral strains, their detection and control, and associated challenges.

Virus Structure World Bank Publications

This is a concise, highly accessible introduction to medical virology, incorporating essential basic principles as well as a systematic review of viruses and viral diseases. It pays particular attention to developments in anti-viral therapy that are becoming increasingly effective in modern medicine. It is an ideal textbook for the information-overloaded student and an invaluable everyday companion for the busy professional who needs a good understanding of the current state of medical virology. In keeping with the highly successful format of other Illustrated Colour Texts, it presents the subject as a series of succinct 2 page ' learning units ' , using a superb collection of clear

illustrations and clinical photographs, concise yet comprehensive text and key point boxes to aid quick access to information and examination preparation. So whether you are a medical student, junior doctor, medical scientist, trainee in infectious diseases or student on another allied medical course, this book is here to make your life easier! It will also provide a very solid foundation for any who plan to delve deeper into this fascinating field. Part of the popular Illustrated Colour Text series Information presented in double page spreads for easy learning Highly illustrated with both full colour graphics and clinical photographs Each spread includes a key point box for exam preparation

Ebola Bird Flu

"The COLOSS Beebook

is a unique venture that aims to standardise methods for studying the honey bee. It is a practical manual compiling close to 1700 standard methods in all fields of research on the honey bee, *Apis mellifera*, and will become the definitive, but evolving, research manual, composed of 31 peer-reviewed chapters authored by 234 of the world's leading honey bee experts representing 34 different countries. Chapters describe methods for studying honey bee biology, methods for understanding honey bee pests and pathogens, and methods for breeding honey bees." --

website.

Virology E-Book
Springer Science &
Business Media

"... this book was written from start to finish by one extremely dedicated and erudite individual.

The author has done an excellent job of covering the many topics that fall under the umbrella of computational biology for vaccine design, demonstrating an admirable command of subject matter in fields as disparate as object-oriented databases and regulation of T cell response. Simply put, it has just the right breadth and depth, and it reads well. In fact, readability is one of its virtues—making the book enticing and useful, all at once..." Human Vaccines, 2010 "... This book has several strong points.

Although there are many textbooks that deal with vaccinology, few attempts have been made to bring together descriptions of vaccines in history, basic bioinformatics, various computational solutions and challenges in vaccinology, detailed experimental methodologies, and cutting-edge technologies... This book may well serve as a first line of reference for all biologists and computer scientists..." – Virology Journal, 2009 Vaccines have probably saved more lives and reduced suffering in a greater number of people than any other medical intervention in human history, succeeding in eradicating smallpox and significantly reducing the mortality and incidence

of other diseases.

However, with the emergence of diseases such as SARS and the threat of biological warfare, vaccination has once again become a topic of major interest in public health.

Vaccinology now has at its disposal an array of post-genomic approaches of great power. None has a more persuasive potential impact than the application of computational informatics to vaccine discovery; the recent expansion in genome data and the parallel increase in cheap computing power have placed the bioinformatics exploration of pathogen genomes centre stage for vaccine researchers.

This is the first book to address the area of bioinformatics as applied to rational vaccine

design, discussing the ways in which bioinformatics can contribute to improved vaccine development by introducing the subject of harnessing the mathematical and computing power inherent in bioinformatics to the study of vaccinology putting it into a historical and societal context, and exploring the scope of its methods and applications. Bioinformatics for Vaccinology is a one-stop introduction to computational vaccinology. It will be of particular interest to bioinformaticians with an interest in immunology, as well as to immunologists, and other biologists who need to understand how advances in theoretical and computational

immunobiology can transform their working practices.

Slow Virus Diseases: Advances in Research and Treatment: 2011

Edition Springer

Bird FluLantern Books

The COLOSS Beebook

Lantern Books

Nowadays, environmental issues including air and water pollution, climate change, overexploitation of marine ecosystems, exhaustion of fossil resources, conservation of biodiversity are receiving major attention from the public, stakeholders and scholars from the local to the planetary scales. It is now clearly recognized that human activities yield major ecological and environmental stresses with irreversible loss of species, destruction of habitat or catastrophic examples of their effects. In fact, these anthropogenic activities impact not only the states and

dynamics of natural resources and ecosystems but also alter human health, well-being, welfare and economic wealth since these resources are support features for human life. The numerous outputs furnished by nature include direct goods such as food, drugs, energy along with indirect services such as the carbon cycle, the water cycle and pollination, to cite but a few. Hence, the various ecological changes our world is undergoing draw into question our ability to sustain economic production, wealth and the evolution of technology by taking natural systems into account. The concept of “sustainable development” covers such concerns, although no universal consensus exists about this notion. Sustainable development -phasizes the need to organize and control the dynamics and the complex -teractions between man, production activities, and natural resources in order to promote their coexistence and

their common evolution. It points out the importance of studying the interfaces between society and nature, and es- ciallythecouplingbetwe eneconomicsandecology.Itind ucesinterdisciplinary scienti?c research for the assessment, the conservation and the management of natural resources.

Human Influenza: New Insights for the Healthcare Professional: 2011 Edition
Emerging Issues in Food Safety

The only available reference to comprehensively discuss the common and unusual types of rickettsiosis in over twenty years, this book will offer the reader a full review on the bacteriology, transmission, and pathophysiology of these conditions. Written from experts in the field from Europe, USA, Africa, and Asia, specialists analyze specific patho

Haart Elsevier

Human Influenza: New

Insights for the Healthcare engineers, analysts, Professional: 2011 Edition research institutions, and is a ScholarlyPaper™ that companies. All of the delivers timely, content is from peer-authoritative, and reviewed sources, and all intensively focused of it is written, assembled, information about Human and edited by the editors Influenza in a compact at ScholarlyEditions™ and format. The editors have available exclusively from built Human Influenza: us. You now have a New Insights for the source you can cite with Healthcare Professional: authority, confidence, and 2011 Edition on the vast credibility. More information databases of information is available at ScholarlyNews.™ You can <http://www.ScholarlyEditions.com/>. expect the information about Human Influenza 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 Human Influenza: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world's leading scientists,

Encyclopedia of Virology

John Wiley & Sons

A key resource for FRCPATH and MRCP trainees, mapped to the current curriculum, using over 300 exam-style Q&A.

Infectious Diseases.

Microbiology and Virology

Springer Science & Business Media

Pathogens transmitted among humans, animals, or plants by insects and arthropod vectors

have been responsible for significant morbidity and mortality throughout recorded history. Such vector-borne diseases – including malaria, dengue, yellow fever, and plague – together accounted for more human disease and death in the 17th through early 20th centuries than all other causes combined. Over the past three decades, previously controlled vector-borne diseases have resurged or reemerged in new geographic locations, and several newly identified pathogens and vectors have triggered disease outbreaks in plants and animals, including humans. Domestic and international capabilities to detect, identify, and effectively respond to vector-borne diseases are limited. Few vaccines have been developed against vector-borne pathogens. At the same time, drug resistance has developed in vector-borne pathogens while their vectors are increasingly resistant to insecticide controls.

Furthermore, the ranks of scientists trained to conduct research in key fields including medical entomology, vector ecology, and tropical medicine have dwindled, threatening prospects for addressing vector-borne diseases now and in the future. In June 2007, as these circumstances became alarmingly apparent, the Forum on Microbial Threats hosted a workshop to explore the dynamic relationships among host, pathogen(s), vector(s), and ecosystems that characterize vector-borne diseases. Revisiting this topic in September 2014, the Forum organized a workshop to examine trends and patterns in the incidence and prevalence of vector-borne diseases in an increasingly interconnected and ecologically disturbed world, as well as recent developments to meet these dynamic threats. Participants examined the emergence and global movement of vector-borne diseases, research

priorities for understanding their biology and ecology, and global preparedness for and progress toward their prevention, control, and mitigation. This report summarizes the presentations and discussions from the workshop.

Global Burden of Disease and Risk Factors Elsevier Health Sciences

The author explores the underlying conditions that would create a bird flu pandemic, examines the ways in which the public can protect themselves and their families, and describes what can be done to reduce the likelihood of spreading this disease.

SARS, MERS and other Viral Lung Infections CRC Press

Written by experts in their field, *Virus Structure and Assembly* summarizes our current state of knowledge in the field of virus structure and assembly, comparing and contrasting the mechanisms

adopted by viruses with a wide diversity of genome and host.

It will serve as an invaluable reference for researchers in virology, microbiology, epidemiology, molecular biology, and public health. *

Witness to the remarkable advancement in the field of virus structure and assembly *

A unique opportunity to compare and contrast mechanisms adopted by a diverse range of viruses from bacteriophages and RNA viruses to Bluetongue, Influenza and Hepatitis B *

Numerous illustrations including color * Discussion on the VIPER database, a repository for all high-resolution structures of simple icosahedral viruses, and on application of mass

spectrometry to the analysis of structures present in biological specimens, such as HIV-1

The Evolution and Emergence of RNA Viruses Springer

Shortlisted for the Fage and Oliver Prize 2018 From

December 2013, the largest Ebola outbreak in history swept across West Africa, claiming thousands of lives in Liberia, Sierra Leone and Guinea. By the middle of 2014, the international community was gripped by hysteria. Experts grimly predicted that millions would be infected within months, and a huge international control effort was mounted to contain the virus. Yet paradoxically, by this point the disease was already going into decline in Africa itself. So why did outside observers get it so wrong? Paul Richards draws on his extensive first-hand experience in Sierra Leone to argue that the international community's panicky response failed to take account of local expertise and common sense. Crucially, Richards shows that the humanitarian response to the disease was most effective in those areas where it supported these initiatives and that it hampered recovery when it ignored or disregarded local knowledge.

Immunoregulation Cambridge University Press

Sheep Diseases: Advances in Research and Treatment: 2011 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Sheep Diseases in a concise format. The editors have built *Sheep Diseases: Advances in Research and Treatment: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Sheep Diseases 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 *Sheep Diseases: Advances in Research and Treatment: 2011 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/>.

Virus Taxonomy BoD – Books on Demand

Immunoregulation is one of the areas which has witnessed the most explosive advances of immunology during the past decade. It is in this area that the current view of the immune system has arisen and developed. There is indeed little doubt that immune reactions are primarily determined by messages which are generated within the

immune system and passed among different types of immunologic cells. This cell communication not only determines the type, intensity and duration of the response after perturbation of the immune system by exogenous antigens, but it is also essential for preventing autoimmune reactions and their clinical consequences. In order to assure a perfect balance within the enormous complexity of the immune system, it is not surprising that multiple self-regulatory mechanisms are organized at different levels, such as antibody feedback, idiotype-anti-idiotypic responses, suppressor and helper T cells, lymphokine signals and genetic requirements. A number of observations in recent years have, however, demonstrated that consistent contributions to the immunological

homeostasis are given also by signals generated outside of the immune system, namely, in the central and autonomous nervous system as well as in the endocrine apparatus. Furthermore, the interactions between the immune system and the other body homeostatic mechanisms seem to be bidirectional: if immunological cells may be targets of neuroendocrinological factors, immunological products seem in turn to contribute to the neuro endocrine homeostasis.

Viral Pathogenesis

Springer Science & Business Media

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.

The Epstein-Barr Virus

Springer Science & Business Media

Vectors and Vector-Borne Zoonotic Diseases is about a group of diseases that can infect humans and animals, and that are transmitted by vectors. These diseases are called vector-borne zoonotic diseases. This book is meant to be used by veterinarians, medical doctors, entomologists, and other

experts, as well as students, animal owners, nature lovers, etc. The book has several sections: "Introduction," "Vectors", "Vector-Borne Diseases and Pathogens," and "Vector Control." Each of the sections concerns one stage of a vector-borne disease. Each group of authors has dedicated their work to one of the topics with key roles on pathogens or vectors that are of great public health interest in their country or region. In this book, the authors have tried to show which vectors and diseases are the most interesting, having in mind that their spreading represents a danger to health. With this book, we hope to broaden readers' knowledge by sharing experiences with vector-borne diseases, with the aim to upgrade the knowledge of general public health from a One Health perspective.

The Rubber Tree Genome
MDPI

This book presents the first comprehensive compilation of genome research on the *Hevea brasiliensis* rubber tree. The genomes of *Hevea* tree clones (cultivars) are described by three major international groups. Chapters on omics-driven investigations address a broad range of topics including genome annotation and utilisation, transcriptome and gene family analysis, genetic mapping, metabolic pathways in latex and molecular breeding. Additionally, an overview of fundamental rubber biology, especially on laticifers, provides a historical background that is relevant to rubber genome analysis. The book concludes with several perspectives on the future needs of rubber investigations and prospects of rubber genomics. Given the scope of topics, this book will appeal to researchers and university students working in genomics and biotechnology of the rubber tree, and to rubber breeders with an interest in non-conventional approaches to trait analysis, selection and breeding.

The Transmission of Epidemic Influenza

Springer Science & Business Media

A practical and evidence-based guide for student, pre-registration and qualified pharmacists Symptoms in the Pharmacy is an indispensable guide to the management of common symptoms seen in the pharmacy. With advice from an author team that includes both pharmacists and GPs, the book covers ailments which will be encountered in the pharmacy on a daily basis. Now in its sixth edition Symptoms in the Pharmacy has been fully revised to reflect the latest evidence and availability of new medicines. There are new sections and case studies for 'POM' to 'P' switches including chloramphenicol, sumatriptan, diclofenac, naproxen and amorolfine.

This edition features colour photographs of skin conditions for the first time enabling the differentiation and diagnosis of common complaints. The public health and illness prevention content have been expanded to support this increasingly important aspect of the pharmacist's work. The book is designed for quick and easy reference with separate chapters for each ailment. Each chapter incorporates a decision making framework in which the information necessary for treatment and suggestions on 'when to refer' is distilled into helpful summary boxes. At the end of each chapter there are example case studies providing the view of pharmacists, doctors and patients for most conditions covered. These easy-to-follow- chapters can be read cover to cover or turned to

for quick reference. This useful guide should be kept close at hand for frequent consultation.

Virus Structure and Assembly Bloomsbury Publishing

Technological advances, together with a better understanding of the molecular biology of infectious microorganisms, are creating exciting possibilities for a new generation of replicating vaccines. Historically, live vaccines have been either directly derived from a natural source or attenuated by empirical approaches using serial passages and host cell adaptation. Currently, we are witnessing a quantum leap in our technological capabilities to specifically modify the genetic make-

up of viruses and bacteria, making it possible to generate improved live vaccines and to develop completely new types of replicating vaccines, such as vectored vaccines, single-round infectious vaccines and replicon vaccines. This book highlights some of the most exciting recent developments towards a new generation of replicating vaccines.