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PICORNAVIRIDAE INFECTIONS: ADVANCES IN RESEARCH AND TREATMENT: 2011 EDITION

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ENCYCLOPEDIA OF VIROLOGY

Academic Press Encyclopedia of Virology, Fourth Edition, builds on the solid foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

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ADVANCES IN VIRUS RESEARCH

Academic Press Published since 1953, *Advances in Virus Research* covers a diverse range of in-depth reviews providing a valuable overview of the current field of virology. The impact factor for 2008 is 4.886, placing it 4th in the highly competitive category of virology. Key features: * Contributions from leading authorities * Informs and updates on all the latest developments in the field

VERTEBRATE VIRUSES—ADVANCES IN RESEARCH AND APPLICATION: 2012 EDITION

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THE IMMORTAL LIFE OF HENRIETTA LACKS

Crown #1 NEW YORK TIMES BESTSELLER • “The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important

advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta's family did not learn of her "immortality" until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta's daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn't her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

VIRAL HEMORRHAGIC FEVERS—ADVANCES IN RESEARCH AND TREATMENT: 2012 EDITION

SCHOLARLYBRIEF

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FENNER AND WHITE'S MEDICAL VIROLOGY

Academic Press *Fenner and White's Medical Virology, Fifth Edition* provides an integrated view of related sciences, from cell biology, to medical epidemiology and human social behavior. The perspective represented by this book, that of medical virology as an infectious disease science, is meant to provide a starting point, an anchor, for those who must relate the subject to clinical practice, public health practice, scholarly research, and other endeavors. The book presents detailed exposition on the properties of viruses, how viruses replicate, and how viruses cause disease. These chapters are then followed by an overview of the principles of diagnosis, epidemiology, and how virus infections can be controlled. The first section concludes with a discussion on emergence and attempts to predict the next major public health challenges. These form a guide for delving into the specific diseases of interest to the reader as described in Part II. This lucid and concise, yet comprehensive, text is admirably suited to the needs of not only advanced students of science and medicine, but also postgraduate students, teachers, and research workers in all areas of virology. Features updated and expanded coverage of pathogenesis and immunity Contains the latest laboratory diagnostic methods Provides insights into clinical features of human viral disease, vaccines, chemotherapy, epidemiology, and control

VIRAL SEXUALLY TRANSMITTED DISEASES—ADVANCES IN RESEARCH AND TREATMENT: 2012 EDITION

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TEXTBOOK OF ORGAN TRANSPLANTATION SET

John Wiley & Sons Brought to you by the world's leading transplantclinicians, Textbook of Organ Transplantation provides acomplete and comprehensive overview of modern transplantation inall its complexity, from basic science to gold-standard surgicaltechniques to post-operative care, and from likely outcomes toconsiderations for transplant program administration, bioethics andhealth policy. Beautifully produced in full color throughout, and with over 600high-quality illustrations, it successfully: Provides a solid overview of what transplantclinicians/surgeons do, and with topics presented in an order thata clinician will encounter them. Presents a holistic look at transplantation, foregrounding theinterrelationships between transplant team members and non-surgicalclinicians in the subspecialties relevant to pre- andpost-operative patient care, such as gastroenterology, nephrology,and cardiology. Offers a focused look at pediatric transplantation, andidentifies the ways in which it significantly differs fromtransplantation in adults. Includes coverage of essential non-clinical topics such astransplant program management and administration; research designand data collection; transplant policy and bioethical issues. Textbook of Organ Transplantation is the market-leadingand definitive transplantation reference work, and essentialreading for all transplant surgeons, transplant clinicians, programadministrators, basic and clinical investigators and any othermembers of the transplantation team responsible for the clinicalmanagement or scientific study of transplant patients.

VIRUS AND VIRUS-LIKE DISEASES OF POME AND STONE FRUITS

Amer Phytopathological Society

CELL NUCLEUS STRUCTURES—ADVANCES IN RESEARCH AND APPLICATION: 2012 EDITION

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EMERGING AND TRANSBOUNDARY ANIMAL VIRUSES

Springer Nature This book, which is the first volume of the book series-Livestock Diseases and Management, summarizes the prominence and implications of the emerging and transboundary animal viruses. Although the livestock plays an important role in the economy of many countries, the emerging and transboundary animal viral diseases possess a serious risk to the animal-agriculture sector and food security globally. The book describes the precise and up-to-date information on animal viral diseases which have emerged in the recent past or are re-emerging due to various environmental factors and those which are not bounded in restricted national boundaries and attained the transboundary status. The chapters summarize the recent advancements in the molecular state-of-art tools towards the development of diagnostics, prophylactics, and therapeutics of these viruses. It also explicitly describes the challenges imposed by the emerging and transboundary viral infections and our preparedness to counter them.

DNA REPAIR

AN UPDATE

BoD - Books on Demand This book offers a collection of chapters addressing different studies on DNA repair from a cellular and molecular point of view. The various contributions highlight the vastness of DNA repair process and the need for a deeper understanding. To this end, the recent considerations here presented can be a cue for scientists and students working on, or interested in, the subject of DNA repair in human cells. This book may suggest to readers new avenues of interplay between different kinds of DNA damage and cellular response for maintaining nuclear and mitochondrial genomic stability.

INTEGRATED PEST MANAGEMENT AND PEST CONTROL

CURRENT AND FUTURE TACTICS

BoD - Books on Demand Integrated Pest Management is an effective and environmentally sensitive approach that relies on a combination of common-sense practices. Its programs use current and comprehensive information on the life cycles of pests and their interactions with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means and with the least possible hazard to people, property, and the environment.

QUASISPECIES: CONCEPT AND IMPLICATIONS FOR VIROLOGY

Springer Science & Business Media Continuous genetic variation and selection of virus subpopulations in the course of RNA virus replications are intimately related to viral disease mechanisms. The central topics of this volume are the origins of the quasispecies concept, and the implications of quasispecies dynamics for viral populations.

ADVERSE EFFECTS OF VACCINES

EVIDENCE AND CAUSALITY

National Academies Press In 1900, for every 1,000 babies born in the United States, 100 would die before their first birthday, often due to infectious diseases. Today, vaccines exist for many viral and bacterial diseases. The National Childhood Vaccine Injury Act, passed in 1986, was intended to bolster vaccine research and development through the federal coordination of vaccine initiatives and to provide relief to vaccine manufacturers facing financial burdens. The legislation also intended to address concerns about the safety of vaccines by instituting a compensation program, setting up a passive surveillance system for vaccine adverse events, and by providing information to consumers. A key component of the legislation required the U.S. Department of Health and Human Services to collaborate with the Institute of Medicine to assess concerns about the safety of vaccines and potential adverse events, especially in children. Adverse Effects of Vaccines reviews the epidemiological, clinical, and biological evidence regarding adverse health events associated with specific vaccines covered by the National Vaccine Injury Compensation Program (VICP), including the varicella zoster vaccine, influenza vaccines, the hepatitis B vaccine, and the human papillomavirus vaccine, among others. For each possible adverse event, the report reviews peer-reviewed primary studies, summarizes their findings, and evaluates the epidemiological, clinical, and biological evidence. It finds that while no vaccine is 100 percent safe, very few adverse events are shown to be caused by vaccines. In addition, the evidence shows that vaccines do not cause several conditions. For example, the MMR vaccine is not associated with autism or childhood diabetes. Also, the DTaP vaccine is not associated with diabetes and the influenza vaccine given as a shot does not exacerbate asthma. Adverse Effects of Vaccines will be of special interest to the National Vaccine Program Office, the VICP, the Centers for Disease Control and Prevention, vaccine safety researchers and manufacturers, parents, caregivers, and health professionals in the private and public sectors.

MANUAL FOR THE LABORATORY DIAGNOSIS AND VIROLOGICAL SURVEILLANCE OF INFLUENZA

"WHO has developed this manual in order to strengthen the laboratory diagnosis and virological surveillance of influenza infection by providing standard methods for the collection, detection, isolation and characterization of viruses."--Publisher's description.

GLOBAL HEALTH IMPACTS OF VECTOR-BORNE DISEASES

WORKSHOP SUMMARY

National Academies Press 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.

TRENDS IN BASIC AND THERAPEUTIC OPTIONS IN HIV INFECTION

TOWARDS A FUNCTIONAL CURE

BoD - Books on Demand The past decade has seen several changes in HIV prevention, transmission and therapeutic interventions to end the scourge. This book is a collection of expert essays on various aspects of HIV prevention, bioresource deployment, microbicides, host antiviral proteins, antiviral drug responses and novel treatment strategies for which there is evident need for scientific focus and review of the current trend. A visible objective of the book is to provide a wider readership of scientist, clinicians, social workers/HIV caregivers, immunologist, postgraduate students, trainers and vaccine developers an informative and multidisciplinary approach to HIV treatment and intervention strategy by presenting current trends in the development of therapeutic options and its attendant challenges. Practical and informative, the book provides state-of-the-art information on dynamics of HIV distribution, transmission, therapeutic measures and functional cure.

PLANT RESISTANCE TO VIRUSES

John Wiley & Sons Concern about the environmental consequences of the widespread use of pesticides has increased, and evidence of pesticide-resistant virus vectors have continued to emerge. This volume presents a timely survey of the mechanisms of plant resistance and examines current developments in breeding for resistance, with particular emphasis on advances in genetic engineering which allow for the incorporation of viral genetic material into plants. Discusses the mechanisms of innate resistance in strains of tobacco, tomato, and cowpea; various aspects of induced resistance, including the characterization and roles of the pathogenesis-related proteins; antiviral substances and their comparison with interferon; and cross-protection between plant virus strains. Also presents several papers which evaluate the status of genetic engineering as it relates to breeding resistant plants. Among these are discussions of the potential use of plant viruses as gene vectors, gene coding for viral coat protein, satellite RNA, and antisense RNA, and practical issues such as the durability of resistant crop plants in the field.

PLAGUE OF CORRUPTION

RESTORING FAITH IN THE PROMISE OF SCIENCE

Simon and Schuster #1 on Amazon Charts, New York Times Bestseller, USA Today Bestseller—Over 100,000 Copies in Print! "Kent Heckenlively and Judy Mikovits are the new dynamic duo fighting corruption in science." —Ben Garrison, America's #1 political satirist Dr. Judy Mikovits is a modern-day Rosalind Franklin, a brilliant researcher shaking up the old boys' club of science with her groundbreaking discoveries. And like many women who have trespassed into the world of men, she uncovered decades-old secrets that many would prefer to stay buried. From her doctoral thesis, which changed the treatment of HIV-AIDS, saving the lives of millions, including basketball great Magic Johnson, to her spectacular discovery of a new family of human retroviruses, and her latest research which points to a new golden age of health, Dr. Mikovits has always been on the leading edge of science. With the brilliant wit one might expect if Erin

Brockovich had a doctorate in molecular biology, Dr. Mikovits has seen the best and worst of science. When she was part of the research community that turned HIV-AIDS from a fatal disease into a manageable one, she saw science at its best. But when her investigations questioned whether the use of animal tissue in medical research were unleashing devastating plagues of chronic diseases, such as autism and chronic fatigue syndrome, she saw science at its worst. If her suspicions are correct, we are looking at a complete realignment of scientific practices, including how we study and treat human disease. Recounting her nearly four decades in science, including her collaboration of more than thirty-five years with Dr. Frank Ruscetti, one of the founders of the field of human retrovirology, this is a behind the scenes look at the issues and egos which will determine the future health of humanity.

INFECTION PREVENTION AND CONTROL AT A GLANCE

John Wiley & Sons Infection Prevention and Control at a Glance is the perfect companion for study and revision for pre-registration nursing and healthcare students, as well as qualified nurses and medical students. Infection prevention and control is one of the key five 'essential skills clusters' that is incorporated into all pre-registration nursing programmes. This highly visual and dynamic book is a thorough resource for nurses wanting to consolidate and expand their knowledge of this important part of nursing. Written by experienced infection prevention and control specialist nurses, it provides a concise and simple approach to a vast and complex subject, and equips the reader with key information in relation to various aspects of infection prevention and control practice. Provides a snap-shot of the application of infection prevention and control in practice and the key infections affecting patients in both acute and primary care A uniquely visual and accessible overview of a topic of relevance to all nursing staff Includes key points for clinical practice, patient management, and signposting of key national guidance documents and websites Available in a wide-range of digital formats - perfect for 'on the go' study and revision

JUDGING RESEARCH

THE 2019 MDPI WRITING PRIZE

The 2019 MPDI Writing Prize invited early stage researchers who are not native English speakers to write on the subject of "how research should be evaluated and how researchers should be rewarded". Six prizes were awarded, however there were many more entries. This book collates many of those entries and contains inspiring, thought-provoking and original viewpoints of open science through the eyes of those conducting research on a daily basis.

ISSUES IN LIFE SCIENCES—BACTERIOLOGY, PARASITOLOGY, AND VIROLOGY: 2012 EDITION

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AN EPIDEMIC OF ABSENCE

A NEW WAY OF UNDERSTANDING ALLERGIES AND AUTOIMMUNE DISEASES

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BACTERIOPHAGE ECOLOGY

POPULATION GROWTH, EVOLUTION, AND IMPACT OF BACTERIAL VIRUSES

Cambridge University Press Bacteriophages, or phages, are viruses that infect bacteria and are believed to be the most abundant and genetically diverse organisms on Earth. As such, their ecology is vast both in quantitative and qualitative terms. Their abundance makes an understanding of phage ecology increasingly relevant to bacterial ecosystem ecology, bacterial genomics and bacterial pathology. Abedon provides the first text on phage ecology for almost 20 years. Written by leading experts, synthesizing the three key approaches to studying phage ecology, namely studying them in natural environments (in situ), experimentally in the lab, or theoretically using mathematical or computer models. With strong emphasis on microbial population biology and distilling cutting-edge research into basic principles, this book will complement other currently available volumes. It will therefore serve as an essential resource for graduate students and researchers, particularly those with an interest in phage ecology and evolutionary biology.

IMMUNOREGULATION

Springer Science & Business Media 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 neuroendocrine homeostasis.

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