

Models Of Protection Against Hivshiv Avoiding Aids In Humans And Monkeys 2011 12 16

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HIV-1 Latency Guido Silvestri 2018-10-11 This volume summarizes recent advances in understanding the mechanisms of HIV-1 latency, in characterizing residual viral reservoirs, and in developing targeted interventions to reduce HIV-1 persistence during antiretroviral therapy. Specific chapters address the molecular mechanisms that govern and regulate HIV-1 transcription and latency; assays and technical approaches to quantify viral reservoirs in humans and animal models; the complex interchange between viral reservoirs and the host immune system; computational strategies to model viral reservoir dynamics; and the development of therapeutic approaches that target viral reservoir cells. With contributions from an interdisciplinary group of investigators that cover a broad spectrum of subjects, from molecular virology to proof-of-principle clinical trials, this book is a valuable resource for basic scientists, translational investigators, infectious-disease physicians, individuals living with HIV/AIDS and the general public.

Modern Vaccinology Edouard Kurstak 2013-11-11 The recent developments in modern vaccinology are mainly based on: (i) cloning of microbial genes into recombinant vectors containing genetic information for expression of desired neutralizing immunogens; (ii) alternatives of attenuated vectors with deleted genes permitting the insertion of several foreign genes expressing antigens exposed to the host immune system during the abortive replication of such vectors; (iii) combined vaccines with the aim to protect against many diseases with a limited number of administrations; (iv) evidence demonstrating the ability of animals to respond serologically to DNA injections considered as a potential method of vaccination; (v) the possibility to manipulate the immune system with new and improved immunomodulators enhancing the immune response; and (vi) new microcarrier systems for particular immunogens or immunomodulators delivery, either in a single dose or sustained release, and presentation to the immune system for a relevant response. New vaccines being developed are mainly based on viral, bacterial or other vectors modified with genetic engineering technology, to possess and express desired antigens for vaccination against single or multiple infections. Existing combined vaccines like diphtheria, tetanus, pertussis (DTP) are also experimented with new additional components like recombinant hepatitis B virus surface antigen, inactivated poliovirus, and Haemophilus influenzae type b immunogens, in order to produce multivalent vaccines. Such types of vaccines permitting the reduction of multiple medical visits is of particular interest to pediatric immunization programs, and would benefit especially the developing countries assuring better vaccine compliance with immunization schedules.

Health of HIV Infected People Ronald Ross Watson 2015-04-29 Health of HIV Infected People: Food, Nutrition and Lifestyle Without Antiretroviral Drugs defines the supportive roles of bioactive foods, exercise, and dietary supplements on the health of HIV infected people who do not have access to resources or those who choose not to utilize antiretroviral drugs. Approaches such as the application of traditional herbs and foods are given careful definition by experts who define the risks and benefits of such practices within this important context. Readers learn how to treat or ameliorate the effects of chronic retroviral disease using readily available, cheap foods, and dietary supplements. Ultimately, this work delivers a current, concise, scientific appraisal of the efficacy of key foods, nutrients, dietary plants, and behavioral changes in preventing and improving the quality of life of HIV infected infants and adults who are not undergoing antiretroviral therapy. Covers the role of nutrients in the prevention and treatment of HIV-induced physiological changes Delivers important coverage on the relationship between HIV infection and infant feeding practice, along with public health policy recommendations in social and cultural context Provides coverage of fitness and exercise regimens, physical activity, and behavioral and lifestyle changes on HIV infected individuals Explores food and treatment of obesity, diabetes, and cardiovascular disease in HIV infected patients, including those without antiretroviral therapeutic treatment

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 1998 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies 1997

Evolving T-cell Vaccine Strategies for HIV, the Virus with a Thousand Faces 2009 HIV's rapid global spread and the human suffering it has left in its wake have made AIDS a global health priority for the 25 years since its discovery. Yet its capacity to rapidly evolve has made combating this virus a tremendous challenge. The obstacles to creating an effective HIV vaccine are formidable, but there are advances in the field on many fronts, in terms of novel vectors, adjuvants, and antigen design strategies. SIV live attenuated vaccine models are able to confer protection against heterologous challenge, and this continues to provide opportunities to explore the biological underpinnings of a protective effect (9). More indirect, but equally important, is new understanding regarding the biology of acute infection (43), the role of immune response in long-term non-progression (6,62, 81), and defining characteristics of broadly neutralizing antibodies (4). In this review we will focus on summarizing strategies directed towards a single issue, that of contending with HIV variation in terms of designing aT-cell vaccine. The strategies that prove most effective in this area can ultimately be combined with the best strategies under development in other areas, with the hope of ultimately converging on a viable vaccine candidate. Only two large HIV vaccine efficacy trials have been completed and both have failed to prevent infection or confer a benefit to infected individual (23,34), but there is ample reason to continue our efforts. A historic breakthrough came in 1996, when it was realized that although the virus could escape from a single antiretroviral (ARV) therapy, it could be thwarted by a combination of medications that simultaneously targeted different parts of the virus (HAART) (38). This revelation came after 15 years of research, thought, and clinical testing; to enable that vital progress the research and clinical communities had to first define and understand, then develop a strategy to counter, the remarkable evolutionary potential of the virus. HAART, for the first time, provided an effective treatment to help those with living with HIV stay healthy. Nonetheless, the treatment has limitations. People with HIV face a lifetime of expensive daily multi-drug regimens, often with side effects; drug resistance at the individual and population level are issues (56); and universal access, despite substantial progress, is a dream not yet realized for many of the millions of the world's poor who are living with HIV (68). These issues, combined with the growing numbers of people infected globally and impact of HIV on society, make the development of an HIV vaccine or a prophylactic prevention strategy a crucial if elusive goal. In some ways, the history of HIV vaccine development has paralleled the early stages of designing effective therapy. We had to test the simple strategies first, but meanwhile the story of the impact of diversity from an immunological perspective is still unfolding, and novel ideas countermeasures are being explored.

AIDS in Africa Max Essex 2007-05-08 This comprehensive reference book addresses the unique challenges facing many African nations as poor infrastructure and economics continue to obstruct access to advanced treatments and AIDS care training. It takes into account the context of settings with limited resources. Information on how to best utilize existing resources and prioritize scaling-up of infrastructure is a critical aspect of this book for those working in HIV/AIDS-related fields in Africa.

Journal of the National Cancer Institute 1988

Biological Aspects of Disease Philip M. Iannaccone 1997-06-23 Contains eleven contributions which address specific examples of the way in which animal experimentation leads to data applicable to human disease. Includes coverage of the ethics of animal use and advantages of animal models over alternate systems, including computer simulation, tissue culture, and in vitro biochemistry. Annotation copyrighted by Book News, Inc., Portland, OR

Prevention

Novel Strategies in the Design and Production of Vaccines Sara Cohen 2013-06-29 Vaccination is one of the most efficient and cost effective methods of promoting human health and has been in clinical use for at least 200 years. Nevertheless, infectious diseases continue to constitute a constant threat to the well being of humanity. Common pathogens, once believed to be under control, acquire increased virulence and resistance to drugs, while exotic

microorganisms emerged from hidden reservoirs to cause yet incurable diseases in humans. These changes, together with epidemic outbreaks related to political and socio-economic instabilities, increase the needs for the development of new, advanced vaccines. In this volume, devoted to the proceedings of the 39th OHOLO Conference, we present some of the recent strategies for the design and production of novel vaccines. The advent of recombinant DNA technology has stimulated the production of several subunit vaccines. In spite of the obvious advantages to this approach, the limited immunogenicity of many subunit candidates has hindered their development. Strategies to enhance the immunogenicity of subunit vaccines is therefore critical. Several approaches toward this goal, including design of novel adjuvants and delivery systems as well as design of advantageous carriers, are presented here. Among the carriers evaluated here are polypeptides (flagellin, HBV core antigen, J3-galactosidase), attenuated virions (Vaccinia, Sindbis), and nonpathogenic licensed bacteria (Salmonella).

Reporter 1991

AIDS and Other Manifestations of HIV Infection Gary P. Wormser 1992 Provides an update on AIDS and other HIV infections. Over 40 chapters present information on the biological properties of the etiologic viral agent, its clinico-pathological manifestations, the epidemiology of HIV infection and the day-to-day management of HIV infected patients.

Pharmaceutical Biotechnology Carlos A. Guzmán 2010-01-01 Pharmaceutical Biotechnology is a unique compilation of reviews addressing frontiers in biologicals as a rich source for innovative medicines. This book fulfills the needs of a broad community of scientists interested in biologicals from diverse perspectives—basic research, biotechnology, protein engineering, protein delivery, medicines, pharmaceuticals and vaccinology. The diverse topics range from advanced biotechnologies aimed to introduce novel, potent engineered vaccines of unprecedented efficacy and safety for a wide scope of human diseases to natural products, small peptides and polypeptides engineered for discrete prophylaxis and therapeutic purposes. Modern biologicals promise to dramatically expand the scope of preventive medicine beyond the infectious disease arena into broad applications in immune and cancer treatment, as exemplified by anti-EGFR receptors antibodies for the treatment of breast cancer. The exponential growth in biologicals such as engineered proteins and vaccines has been boosted by unprecedented scientific breakthroughs made in the past decades culminating in an in-depth fundamental understanding of the scientific underpinnings of immune mechanisms together with knowledge of protein and peptide scaffolds that can be deliberately manipulated. This has in turn led to new strategies and processes. Deciphering the human, mammalian and numerous pathogens' genomes provides opportunities that never before have been available—identification of discrete antigens (genomes and antigenomes) that lend themselves to considerably improved antigens and monoclonal antibodies, which with more sophisticated engineered adjuvants and agonists of pattern recognition receptors present in immune cells, deliver unprecedented safety and efficacy. Technological development such a nanobiotechnologies (dendrimers, nanobodies and fullerenes), biological particles (viral-like particles and bacterial ghosts) and innovative vectors (replication-competent attenuated, replication-incompetent recombinant and defective helper-dependent vectors) fulfill a broad range of cutting-edge research, drug discovery and delivery applications. Most recent examples of breakthrough biologicals include the human papilloma virus vaccine (HPV, prevention of women genital cancer) and the multivalent Pneumococcal vaccines, which has virtually eradicated in some populations a most prevalent bacterial ear infection (i.e., otitis media). It is expected that in the years to come similar success will be obtained in the development of vaccines for diseases which still represent major threats for human health, such as AIDS, as well as for the generation of improved vaccines against diseases like pandemic flu for which vaccines are currently available. Furthermore, advances in comparative immunology and innate immunity revealed opportunities for innovative strategies for ever smaller biologicals and vaccines derived from species such as llama and sharks, which carry tremendous potential for innovative biologicals already in development stages in many pharmaceutical companies. Such recent discoveries and knowledge exploitations hold the promise for breakthrough biologicals, with the coming decade. Finally, this book caters to individuals not directly engaged in the pharmaceutical drug discovery process via a chapter outlining discovery, preclinical development, clinical development and translational medicine issues that are critical the drug development process. The authors and editors hope that this compilation of reviews will help readers rapidly and completely update knowledge and understanding of the frontiers in pharmaceutical biotechnologies.

In vivo Models of HIV Disease and Control Herman Friedman 2007-04-27 An AIDS vaccine is still elusive and HIV treatment continues to develop multidrug resistance at alarming rates. Because of the similarities between HIV and immune deficiency infections in a variety of animals, it is only natural that scientists use these animals as models to study pathogenesis, treatment, vaccine development and many other aspects of HIV. Part of the series Infectious Agents and Pathogenesis, this volume reviews the immune deficiency virus in a variety of hosts. Pathogenesis, vaccine and drug development, epidemiology, and the natural history of the monkey, mouse, cat, cow, horse, and other animal viruses are detailed and compared to HIV. Also included are chapters on the history and future of animal models, as well as a chapter on ethical and safety considerations in using animal models for AIDS studies.

Animal Welfare Christina Fisanick 2011-03-25 In Hinduism, cows are sacred, respected, and treated as a motherly giving animal. The thought of eating them or using their skin for accessories is sickening. So many cultures across the globe have their own understandings of animal welfare. This fantastic collection of essays shares international beliefs about animals and animal welfare. Essays includes speeches, government documents, and articles from international magazines and news sources. Readers will explore global perspectives about cultural and religious views on animal rights. They will evaluate animal welfare in relation to biomedical research. Essays examine the world food industry. The last chapter covers animal ownership and welfare in various cultures.

Evaluation of different SIV plasmid DNA vaccines Marc Gregory Busch 2004

HIV Prevention Kenneth H. Mayer 2009-03-13 HIV/AIDS continues to be the pandemic of our times and there has not been a comprehensive medically based AIDS prevention book published in the last 5 years. It is estimated that 36 to 45 million people including 2-3 million children already are infected worldwide and an additional 4-7 million more are infected each year. There are about 6,000 new infections daily and about 12 million AIDS orphans. People receiving AIDS treatments feel well and have no detectable viral load, but still can infect others. And even when a vaccine is found, it will take many years before it can be administered across the developing world. * Discusses all aspects of AIDS prevention, from epidemiology, molecular immunology and virology to the principles of broad-based public health prevention interventions. * Special focus on the array of interventions that have been proven effective through rigorous study * Identifies new trends in HIV/AIDS epidemiology and their impact on creating and implementing prevention interventions * Incorporates virology, biology, infectious diseases, vaccinology, microbicides and research methodologies into AIDS prevention

Handbook of Laboratory Animal Science, Volume II Jann Hau 2011-04-22 Biomedical research involving animals remains essential for the advancement of the medical, veterinary, agricultural, and biological sciences. Following in the footsteps of its predecessors, the Handbook of Laboratory Animal Science, Volume II, Third Edition: Animal Models explains in great detail the comparative considerations underlying the choice of animal models. Science In Medicine American Society for Clinical Investigation, 2007-10-31 Science in Medicine: The JCI Textbook of Molecular Medicine is a collection of acclaimed articles published in the Journal of Clinical Investigation during the Journal's tenure at Columbia University. The society that publishes the JCI, the American Society for Clinical Investigation (ASCI), is an honor society of physician scientists, representing those who are at the forefront of translating findings in the laboratory to the advancement of clinical practice. This textbook brings together state-of-the-art reviews written by the world's leading authorities,

including many ASCI members. The reviews examine the molecular mechanisms underlying a wide array of diseases and disorders affecting all major organ systems. The fundamentals of the organ or physiological systems in question are present alongside the underlying genetic or physiological abnormalities that result in disease. This text illustrates the translation of basic scientific knowledge into the current practice of clinical medicine. The reviews provide an authoritative and comprehensive overview by building on known scientific concepts and treatment of human disease while exploring where these advances might take medicine over the next decade. The book is a valuable resource for medical students, graduate students, house staff, attending and practicing physicians, and biomedical researchers.

[Cumulated Index Medicus 1999](#)

[Sande's HIV/AIDS Medicine E-Book](#) Paul Volberding 2012-04-13 Access the latest information available in the challenging area of HIV/AIDS management with Sande's HIV/AIDS Medicine, 2nd Edition. Authored by a veritable "who's who" of current global experts in the field, this medical reference book will provide you with all the practical, indispensable guidance you'll need to offer your patients the best possible care. Access reliable, up-to-the-minute guidance that addresses the realities of HIV/AIDS management in your geographical region, thanks to contributions from a global cast of renowned expert clinicians and researchers. Locate the clinically actionable information you need quickly with an organization that mirrors the current state of the AIDS epidemic and the different needs of Western vs. developing-world patients and clinicians. Diagnose AIDS manifestations confidently by comparing them to full-color clinical images. Improve patient outcomes with the latest findings on the management of AIDS as a chronic illness. Efficiently review essential data through numerous at-a-glance tables. Get the most relevant information available on pediatric HIV and AIDS issues; anti-retroviral drugs, including integrase inhibitors; and the use of second- and third-line anti-retroviral drugs in resource-poor settings. Stay current on the latest actionable information, such as using antiretroviral therapy in patients with tuberculosis and drug-resistant tuberculosis; antiretroviral therapy; immune reconstitution inflammatory syndromes (IRIS); and implementation of the HPV vaccine.

[Stay away from AIDS. Something one should know](#) Valeriy Zhiglov 2017-09-05 AIDS is a contagious disease, currently incurable. Dozens of millions of HIV-positive are already registered worldwide, and each year this number grows. In recent years, AIDS/HIV became a major problem both for people from «risk groups», and for ordinary people. The book gives a number of important recommendations on how to suppress further expansion of this dangerous disease. **Infectious Diseases E-Book** Jonathan Cohen 2016-06-10 Drs. Cohen, Powderly and Opal, three of the most-respected names in infectious disease medicine, lead a diverse team of international contributors to bring you the latest knowledge and best practices. Extensively updated, the fourth edition includes brand-new information on advances in diagnosis of infection; Hepatitis C; managing resistant bacterial infections; and many other timely topics. An abundance of photographs and illustrations; a practical, clinically-focused style; highly-templated organization; and robust interactive content combine to make this clinician-friendly resource the fastest and best place to find all of the authoritative, current information you need. Hundreds of full-color photographs and figures provide unparalleled visual guidance. Consistent chapter organization and colorful layouts make for quick searches. Clinically-focused guidance from "Practice Points" demonstrates how to diagnose and treat complicated problems encountered in practice. The "Syndromes by Body System", "HIV and AIDS", and "International Medicine" sections are designed to reflect how practicing specialists think when faced with a patient. Sweeping updates include new or revised chapters on: Hepatitis C and antivirals Fungal infection and newer antifungals Microbiome and infectious diseases as well as advances in diagnosis of infection; Clostridium difficile epidemiology; infection control in the ICU setting; Chlamydia trachomatis infection; acquired syndromes associated with autoantibodies to cytokines;; management of multidrug resistant pathogens; probiotics, polymyxins, and the pathway to developing new antibiotics HIV including HIV and aging, antiretroviral therapy in developing countries, and cure for HIV

Biomedical Index to PHS-supported Research 1990

[Simian Virology](#) Alexander F. Voevodin 2009-08-06 Simian Virology is the first text to comprehensively cover all currently known simian viruses. Chapters provide an overview of nonhuman primate models of medically important viral diseases as well as natural infections of nonhuman primates with human and animal viruses. The text covers a variety of topics including primate models of medically important viral diseases such as AIDS, hypotheses on the origins of epidemic forms of HIV, and viral diseases caused by non-simian viruses in both wild and captive primates.

Ethical Issues in HIV Vaccine Trials T. Kerns 1996-12-11 This book explores some of the complex ethical quandaries entailed by proposed phase III HIV preventive vaccine trials. The book argues that such trials must be initiated as soon as politically and ethically feasible on the one hand, and that no such trials should be undertaken until we can assure full compliance with the Nuremberg Code and the WHO/CIOIMS International Ethical Guidelines for Biomedical Research Involving Human Subjects on the other. The tension between these two positions is fully detailed and suggestions offered for how to think about possible resolutions.

Models of Protection Against HIV/SIV Gianfranco Pancino 2011-11-02 A successful vaccine for the prevention and/or immunotherapy against HIV/AIDS is one of the prominent challenges of the 21st century. To date, all human vaccine trials against this virus/disease have resulted in failure, or at best have shown very low efficacy. The scientific community dealing with HIV/AIDS has unanimously proposed a focus on basic science, with the intention of identifying correlates of protection that can serve as guides in developing and evaluating vaccine preparation. However, Nature seems to have already found several ways of dealing with infections by HIV and related primate lentiviruses, either by resisting infection or, once infected, avoiding immune damage and immunodeficiency. Models of Protection Against HIV/SIV will allow for an in-depth reflection on the perspectives for vaccine and therapy research derived from important recent studies. It will be authored by some of the most well known specialists in the field of HIV resistance/protection: including F. Barré-Sinoussi (2008 Nobel Prize for Medicine winner), B. Walker, S. Rowland-Jones, A. Telenti, M. Lederman and F. Plummer. This book is structured in a unique way, looking at three models of resistance/protection separately and then comparing the models against one another to provide its readership with a detailed examination of the research that is most predominant in the search for a vaccine. This structure presents the information in an easy-to-understand format and gives the book a cross-discipline appeal -- an important reference for those in the scientific community, medical care, public health and academia alike. Provides extensive descriptions and comparisons on the different models of protection against HIV/AIDS Comprehensive writing and illustrations Contributors are among the most eminent specialists in the field

HIV Vaccines and Cure Linqi Zhang 2018-07-20 This book provides a comprehensive review of the major barriers to HIV cure and vaccine. It covers the fundamental virology and immunology leading to HIV transmission, protection from infection and long term HIV persistence on antiretroviral therapy. In addition, strategies being tested to eliminate persistent HIV and the rational design of vaccines to induce protective immunity are covered. This book also discusses the challenges related to the design of clinical trials for testing the safety and efficacy of these innovative approaches. This book will provide a systematic overview and also discuss controversial issues for researchers in virology and immunology, as well as practicing physicians, and scientists in the pharmaceutical industry.

AIDS Research and Human Retroviruses 1998

Disease Control Priorities, Third Edition (Volume 6) Prabhat Jha 2017-12-04 Infectious diseases are the leading cause of death globally, particularly among children and young adults. The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases. Major Infectious Diseases identifies feasible, cost-effective packages of interventions and strategies across delivery platforms to prevent and treat HIV/AIDS, other sexually transmitted infections, tuberculosis, malaria, adult febrile illness, viral hepatitis, and neglected tropical diseases. The volume emphasizes the need to effectively address emerging antimicrobial resistance, strengthen health systems, and increase access to care. The attainable goals are to reduce incidence, develop innovative approaches, and optimize existing tools in resource-constrained settings.

Models of Protection Against HIV/SIV Gianfranco Pancino 2012-01 A successful vaccine for the prevention and/or immunotherapy against HIV/AIDS is one of the prominent challenges of the 21st century. To date, all human vaccine trials against this virus/disease have resulted in failure, or at best have shown very low efficacy. The scientific community dealing with HIV/AIDS has unanimously proposed a focus on basic science, with the intention of identifying correlates of protection that can serve as guides in developing and evaluating vaccine preparation. However, Nature seems to have already found several ways of dealing with infections by HIV and related primate lentiviruses, either by resisting infection or, once infected, avoiding immune damage and

immunodeficiency. Models of Protection Against HIV/SIV will allow for an in-depth reflection on the perspectives for vaccine and therapy research derived from important recent studies. It will be authored by some of the most well known specialists in the field of HIV resistance/protection: including F. Barré-Sinoussi (2008 Nobel Prize for Medicine winner), B. Walker, S. Rowland-Jones, A. Telenti, M. Lederman and F. Plummer. This book is structured in a unique way, looking at three models of resistance/protection separately and then comparing the models against one another to provide its readership with a detailed examination of the research that is most predominant in the search for a vaccine. This structure presents the information in an easy-to-understand format and gives the book a cross-discipline appeal -- an important reference for those in the scientific community, medical care, public health and academia alike. Provides extensive descriptions and comparisons on the different models of protection against HIV/AIDS Comprehensive writing and illustrations Contributors are among the most eminent specialists in the field

Vaccines Gregory Gregoriadis 2012-12-06 During the last decade or so vaccine development has been facilitated by rapid advances in molecular and cell biology. These have laid the foundations of a new generation of vaccines exemplified by subunit vaccines produced through gene cloning and by synthetic peptides mimicking small regions of proteins on the outer coat of viruses. Such peptide~ are capable of eliciting virus-neutralizing antibodies. Unfortunately, subunit and peptide vaccines are only weakly or non immunogenic in the absence of immunological adjuvants that are known to augment specific cell-mediated immune responses to the antigens and to promote the formation of protective antibodies. This book contains the proceedings of the 4th NATO Advanced Studies Institute (ASI) "Vaccines: New Generation Immunological Adjuvants" held at Cape Sounion Beach, Greece, during 24 June -5 . July 1994 and deals in depth with both theoretical and practical aspects of vaccinology. These include the role of antigen presenting cells in the induction of immune responses. immunopotentiality by a variety of new generation immunological adjuvants and vaccine carriers. and recent advances and perspectives in experimental vaccines as well as vaccinatioll with nucleic acids. We express our appreciation to Dr. K. Dalsgaard and Dr. J. L. Virelizier for their cooperatioll in planning the ASI and to Mrs. Concha Pening for her excellent production of the manuscripts. The ASI was held under the sponsorship of NATO Scientific Affairs Division and generously co-sponsored by SmithKline Beecham Pharmaceuticals (Philadelphia).

AIDS Research at EC Level Andre E. Baert 1995 At EC level the fight against AIDS, one of the major health problems and socioeconomic diseases today, is also part of the specific RTD programme in the field of biomedicine and health. About 600 research teams are collaborating within 30 concerted actions networks that are underpinned by centralised facilities. For example, the epidemiology research networks are monitored by the WHO/EC collaborating centre in St. Maurice, France. Common experiments on animal models, antiviral screening, genetic analysis of multiple virus strains and provision of reagents for vaccine development are also centralized facilities in AIDS research carried out under the principles of subsidiarity and Community added value. This publication presents an overview of their ongoing research activities in disease control and prevention, viro-immunological research, clinical research and vaccine development. Covered by Current Contents, Life Sciences (ISI), volume 38, no. 19, May 1995, p. 11-12 'Therefore, for anyone doing AIDS research, this is a must volume to have in order to understand what the European Community is doing in AIDS research. Highly recommended for all medical and academic libraries.' - H. Robert Malinowsky, The University of Illinois, Chicago, USA. AIDS Book Review Journal, no. 27, June 1996

The Laboratory Primate 2005-09-19 A volume in the Handbook of Experimental Animals series, The Laboratory Primate details the past and present use of primates in biomedical research, and the husbandry, nutritional requirements, behaviour, and breeding of each of the commonly used species. Practical information on regulatory requirements, not available in other texts, is covered. Sections on experimental models cover the major areas of biomedical research, including AIDS, cancer, neurobiology and gene therapy. Assisted reproductive technology, tissue typing, and minimum group sizes for infectious disease/vaccine studies are also included. Two-color, user-friendly format, with copious illustrations and color plates Includes detailed, well-illustrated sections on gross & microscopic anatomy, common diseases, and special procedures, including surgical techniques

The Vaccine Book Barry R. Bloom 2002-12-12 The Vaccine Book provides comprehensive information on the current and future world of vaccines. It reveals the scientific opportunities and potential impact of vaccines, including economic and ethical challenges, problems encountered when producing vaccines, how clinical vaccine trials are designed, and how to introduce vaccines into widespread use. Although vaccines are now available for many diseases, there are still challenges ahead for major diseases such as AIDS, tuberculosis, and malaria. The Vaccine Book is designed for students, researchers, public health officials, and all others interested in increasing their understanding of vaccines. Topics unique to this book: * Ethics * Economics * Diseases that could be prevented * Clinical trial designs * Ideas about the future of vaccines * Challenges facing research scientists in the vaccine area * Burden of vaccine-preventable illness and the impact of vaccines * Scientific obstacles to be overcome by existing and new vaccines * Basic mechanisms of host immunity and pathogen interaction with host tissues * New approaches to future vaccines against challenging diseases * Real and perceived safety issues which dominate vaccine development and vaccination policies * Microbial pathogenesis as a basis for vaccine design * Planning vaccine trials * Introducing new vaccines into the healthcare system * Future challenges for vaccines and immunizations

Viral Pathogenesis and Immunity Neal Nathanson 2007-04-04 Based on the highly successful reference work Viral Pathogenesis published in 1997, this concise, economical version can be used both as an introductory text or for self-education by medical students and biologists alike. This latest edition provides a completely revised overview of the subject with new chapters on innate immunity, emerging viral diseases, and antiviral therapy in a format that is easy to understand without continually referring to additional information. Used by the author in his graduate classes at the University of Pennsylvania, it sets forth the essential principles and discusses the details of how the immune system responds to viral invasion including the treatment and prevention of infection. Illustrated by pertinent examples it is one of the only books devoted exclusively to this topic. * Offers almost a 20% expansion over the first edition * Focuses specifically on viral pathogenesis unlike other texts where only a few chapters are devoted to the topic * Neal Nathanson is one of the primary authorities in the field and has authored chapters on viral pathogenesis in two of the most well known virology and microbiology titles Field's Virology and Topley and Wilson's Microbiology * Now in four color throughout!

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2002 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies 2001

AIDS Bibliography 1993

AIDS Pathogenesis H. Schuitemaker 2000-03-31 Infection with the human immunodeficiency virus is characterized by the destruction of the host immune system as also reflected by a progressive loss of CD4-positive T-cells. This finally results in the host's incapacity to deal with opportunistic infections and the immune surveillance of tumors, a clinical status known as the Acquired Immunodeficiency Syndrome (AIDS). The book AIDS Pathogenesis provides the reader with a complete overview of the clinical course of HIV-1 infection. It describes the clinical aspects of primary infection, the different clinical outcomes of HIV-1 infection, and strategies for anti-viral treatment. In addition, more fundamental aspects of HIV-1 infection are reviewed. These include the biology of the virus and the novel insights in AIDS pathogenesis. Not only is the significance of an HIV-specific cellular and humoral immune response discussed, but also the possible incapacity of the adult human host to deal with T-cell destruction. Finally, the book discusses the currently used laboratory markers that allow for monitoring of the clinical course of infection.

Natural Hosts of SIV Aftab A. Ansari 2014-07-04 Natural Hosts of SIV: Implications in AIDS thoroughly reviews the possible mechanisms by which African nonhuman primate natural hosts of lentiviruses remain essentially disease-free while other hosts exhibit disease and death. The book ultimately indicates directions for further research and potential translations of this compelling phenomenon into novel approaches to treat and prevent HIV. When Asian non-human primate non-natural hosts are experimentally infected with viruses isolated from African species, disease and death normally results. Meanwhile, these African nonhuman primate natural hosts maintain similar levels of plasma and cellular viremia and exhibit compellingly different, essentially disease-free, states. This work attempts to answer the question of how the natural host remains disease resistant. Summarizes the past 30 years of research in this field and describes the latest developments in AIDS research using nonhuman primate animal models Provides insights into how this large body of scientific work can be translated into novel approaches to treat and prevent HIV Highlights the areas that merit future pursuit, focusing on potential applications for the treatment and prevention of HIV infection