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Immunodeficiency Krassimir Metodiev 2012-10-10 This book reflects a major medical problem which is still under thorough studies. There is a number of clinical cases corresponding directly or indirectly to a certain alteration of the immune system, thus leading to various pathologic conditions. The unique defense, what humans have with their immunity, is rather often affected by infections, tumor processes, organ, tissue and cell transplantation, allergy, autoimmune processes, as well as different influences by the environment. The Book has an international team of authors all contributing to the investigation of the questions of what, why, how, when and where the immune system deviates from its normal function, what clinical consequences are manifested and is there a way to prevent and treat the immunodeficiency cases. This Book can be a very good teaching tool for students and post-docs of medicine and biology, but it also provides updated information for the colleagues immunologists, microbiologists, virologists, chemotherapists, oncologists, hematologists, transplantologists and pathologist.

Mechanisms of Lymphocyte Activation and Immune Regulation VII Sudhir Gupta 2012-12-06 Proceedings of the Seventh International Conference held in New Port Beach, California, February 6-8, 1998

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

Next-Generation Sequencing of Human Antibody Repertoires for Exploring B-cell Landscape, Antibody Discovery and Vaccine Development Jacob Glanville 2020-08-21 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Práticas e protocolos básicos de biologia molecular Fernanda Matias 2021-05-23 *Práticas e Protocolos Básicos de Biologia Molecular* traz facilidade para o seu dia a dia de laboratório, explicando as bases dos reagentes para a solução de problemas. Em um tempo em que tudo é feito por kits, saber o que está no kit para resolver um problema de protocolo é essencial. O principal objetivo desse livro é trazer as bases práticas de biologia molecular para auxiliar o aluno a iniciar um experimento no laboratório. Trazemos a experiência de diversos profissionais para que o aluno não perca tempo e reagente tentando descobrir o que pode estar errado no seu experimento.

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.

Mucosal Vaccines David W. Pascual 2019-10-19 *Mucosal Vaccines: Innovation for Preventing Infectious Diseases* discusses basic knowledge and discovery in the area of mucosal immunology and its related scientific fields. This completely updated, revised and authoritative treatise covers all aspects of mucosal vaccines, including their development, mechanisms of action, molecular/cellular aspects and practical applications. The book is organized in a unique format with basic, clinical and practical aspects described and discussed. The accumulated knowledge and new discoveries on the development of mucosal vaccines are logically introduced and discussed in an easy-to-understand format. Provides the latest views on mucosal vaccines Applies basic and current principles in the field of mucosal immunology and related scientific fields (e.g., microbiology, infectious diseases, systems biology, medicine, dentistry, veterinary medicine and translational research) to the development of new vaccines Links basic, clinical and practical aspects of mucosal vaccines to different infectious diseases Presents user-friendly organization using attractive illustrations

AIDS Research and Human Retroviruses 1994

Cumulated Index Medicus 1999

Virus-Based Nanomaterials and Nanostructures Dong-Wook Han 2020-06-23 A virus is considered a nanoscale organic material that can infect and replicate only inside the living cells of other organisms, ranging from animals and plants to microorganisms, including bacteria and archaea. The structure of viruses consists of two main parts: the genetic material from either DNA or RNA that carries genetic information, and a protein coat, called the capsid, which surrounds and protects the genetic material. By inserting the gene

encoding functional proteins into the viral genome, the functional proteins can be genetically displayed on the protein coat to form bioengineered viruses. Therefore, viruses can be considered biological nanoparticles with genetically tunable surface chemistry and can serve as models for developing virus-like nanoparticles and even nanostructures. Via this process of viral display, bioengineered viruses can be mass-produced with lower cost and potentially used for energy and biomedical applications. This book highlights the recent developments and future directions of virus-based nanomaterials and nanostructures. The virus-based biomimetic materials formulated using innovative ideas were characterized for the applications of biosensors and nanocarriers. The research contributions and trends on virus-based materials covering energy harvesting devices to tissue regeneration in the last two decades are discussed.

Contribution of Innate Responses to Viral Control in HIV-1 Infection Persephone Borrow 2020

Mucosal Vaccination: Strategies to Induce and Evaluate Mucosal Immunity Andreas Frey 2022-05-25

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.

The AIDS Knowledge Base Philip T. Cohen 1994

NIH Guide for Grants and Contracts National Institutes of Health (U.S.) 1994

Lymph Node T Cell Dynamics and Novel Strategies for HIV Cure Constantinos Petrovas 2019-02-11 Currently, more than 36 million people are infected with HIV. Although the introduction of highly active anti-retroviral therapy (HAART) has led to substantial advances in the clinical management of HIV infected individuals, HAART cannot completely eliminate the virus. This is because CD4 T helper cells, harboring the virus, remain dormant reservoirs. These reservoirs are difficult to measure and are present even in HAART-treated HIV infected individuals with undetectable levels of HIV in the blood. A growing body of studies has revealed follicular helper (T_{fh}) CD4 T cells, a highly differentiated CD4 T cell population localized in immunologically sanctuary sites (follicle/germinal center), as a major reservoir of HIV. The present *Frontiers in Immunology* eBook compiles 16 timely review articles focusing on the dynamics of major follicular immune cell types in HIV/SIV infection and their potential role for disease pathogenesis and the viral persistence in the lymph node. This eBook provides a comprehensive presentation of recent published work on lymph node and especially T_{fh} cell dynamics in HIV infection and we hope that it will be useful for our further understanding of how such dynamics affect the interplay between virus and host as well as for the discovery of novel therapeutic targets in the fight against HIV.

Characterization of Simian Immunodeficiency Virus Infection at the Early Stage of Heterosexual Transmission Zhong-Min Ma 2008
Systems Biology Michael G. Katze 2013-01-04 First, systems biology is an inter-disciplinary approach, requiring the combined talents of biologists, mathematicians, and computer scientists. Second, systems biology is holistic, with the goal of obtaining a comprehensive understanding of the workings of biological systems. This is achieved through the acquisition of massive amounts of data by high-throughput technologies—oligonucleotide microarrays, mass spectrometry, and next-generation sequencing—and the analysis of this data through sophisticated mathematical algorithms. It is perhaps the use of mathematics, to integrate abundant and diverse types of data and to generate models of interconnected molecular networks, that best characterizes systems biology.

Pharmacokinetics and Pharmacodynamics of Pre-Exposure Prophylaxis Against HIV Max Von Kleist 2020-10-27 This eBook is a collection of articles from a *Frontiers Research Topic*. *Frontiers Research Topics* are very popular trademarks of the *Frontiers Journals Series*: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, *Frontiers Research Topics* unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own *Frontiers Research Topic* or contribute to one as an author by contacting the *Frontiers Editorial Office*: frontiersin.org/about/contact.

HIV Immunology and HIV/SIV Vaccine Databases 2006

Current Opinion in Biotechnology 1991

NIH Guide for Grants and Contracts 1994

Effective Immunity Against AIDS Lentiviruses Lisa LaFranco Scheuch 2007

Viruses and the Cellular Immune Response D. Brian Thomas 1993-06-23 Presents a comprehensive review of cell-mediated immunity to viral infection, highlighting aspects relevant to HIV research. Opening chapters discuss antigen processing and presentation, and lymphokine function. Subsequent chapters consider immune responses to individual viruses including: HIV, visn

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

The FASEB Journal 1991

Human Immunodeficiency Virus type 1 (HIV-1) and Breastfeeding Athena P. Kourtis 2012-03-28 *The HIV pandemic continues to levy a heavy burden on the human race world-wide. The estimated number of people who became newly infected with HIV in 2009 was 2.6 million; most of these individuals live in Sub-Saharan Africa, followed by India and Southeast Asia. An estimated 370,000 new cases of pediatric infections occurred globally in 2009 (or more than 1,000 new infections every day), practically all of them through mother-to-child transmission. Up to 40% of all new infant HIV infections occur during breastfeeding. While breastfeeding by HIV-infected mothers is not recommended in the U.S. and other resource-rich settings where safe replacement feeding is easily available, the situation is different in many resource-limited settings, where replacement feeding is not safe or available and carries a high risk of infections (diarrhea, pneumonia) and infant malnutrition. Mothers in such settings are faced with a difficult dilemma: to breastfeed their infants in order to provide their infants with its many benefits (nutritional, immunologic, cognitive), but to also risk transmitting HIV. These challenges have prompted an intensive search for new prophylactic and therapeutic strategies in order to prevent infants from acquiring HIV infection through breastfeeding. In this book, expert HIV researchers critically review every aspect of this highly evolving and topical subject. The opening chapters deal with the epidemiology, global magnitude and biologic mechanisms of HIV-1 transmission from mother to child through breastfeeding and include considerations of the virus (quantity, compartments, characteristics) and the host (genetic, immunity-innate, cellular, humoral). The effects of breastfeeding on the HIV-infected mother's health and nutritional status, and the social and cultural issues associated with the practice of breastfeeding are also discussed. The next few chapters provide cutting-edge reviews of the latest approaches to prevention of HIV transmission to the infant through breastfeeding, including antiretroviral strategies, nutritional and immune-based approaches, and treatment of expressed breast milk. The remaining chapters provide a fascinating review of the many iterations this subject has received, as reflected in the several different sets of guidelines for infant feeding by HIV-infected mothers issued by the World Health Organization, and a debate by leading scientists on whether HIV-infected mothers should breastfeed their infants-in resource-limited and in resource-rich settings. A comprehensive overview of the current state of implementing the new evidence for prevention of breastfeeding transmission of HIV all over the world is also presented. Essential reading for the many disciplines of scientists and clinicians working on HIV/AIDS and other retroviruses, pediatricians, obstetricians/gynecologists, as well as all health-care professionals interested in expanding their understanding on the subject.*

Infectious Diseases: New Insights for the Healthcare Professional: 2013 Edition 2013-07-22 *Infectious Diseases: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Diagnosis and Screening. The editors have built Infectious Diseases: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnosis and Screening in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Infectious Diseases: New Insights for the Healthcare Professional: 2013 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/>.*

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.*

Global HIV/AIDS Medicine Paul Volberding 2008 *HIV/AIDS management poses many different challenges around the world, and the therapies available in the West are often not economically feasible in developing countries. This new book is the first to address the myriad of clinical difficulties faced by health practitioners worldwide in managing HIV/AIDS. Edited by the same authorities responsible for the highly respected reference "The Medical Management of AIDS," with Associate Editors that include the President of the International AIDS Society and a preeminent opinion leader in the fight against AIDS in Africa, and authored by a "who's who" of current global experts on HIV and AIDS medicine, this visionary text presents all the practical, indispensable information that clinicians everywhere need to offer their 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. Review essential data quickly through numerous at-a-glance tables.*

AIDS and Other Manifestations of HIV Infection Gary P. Wormser 1998 *Extensively revised and updated, the new edition of AIDS and Other Manifestations of HIV Infection is an essential reference resource providing a comprehensive overview of the biological properties of this etiologic viral agent, its clinicopathological manifestations, the epidemiology of its infection, and present and future*

*therapeutic options. New to this Edition: * Expanded section on clinical manifestations includes new chapters on cardiovascular, renal and dermatologic manifestations of HIV infection* Additional chapters on molecular diagnostic techniques, the role of host genetic variation in HIV infection and its manifestations, the discovery and development of new HIV medicines, analysis of HIV dynamics using mathematical models, toxicities of antiretroviral therapy, HIV drug susceptibility testing, practical therapeutics and the global impact of HIV and AIDS*

Mucosal Vaccines Hiroshi Kiyono 1996-10-23 This comprehensive, authoritative treatise covers all aspects of mucosal vaccines including their development, mechanisms of action, molecular/cellular aspects, and practical applications. The contributing authors and editors of this one-of-a-kind book are very well known in their respective fields. Mucosal Vaccines is organized in a unique format in which basic, clinical, and practical aspects of the mucosal immune system for vaccine development are described and discussed. This project is endorsed by the Society for Mucosal Immunology. Provides the latest views on mucosal vaccines Applies basic principles to the development of new vaccines Links basic, clinical, and practical aspects of mucosal vaccines to different infectious diseases Unique and user-friendly organization

HIV Immunology and HIV SIV Vaccine Databases 2003

CCR5: A Receptor at the Center Stage in Infection Luca Vangelista 2022-11-21

Exploring Novel Approaches to Eliminate HIV Reservoirs to Achieve a Cure for HIV Renee Marije Van Der Sluis 2021-04-07

Unraveling AIDS Mae-Wan Ho 2005 AIDS (Acquired Immune Deficiency Syndrome) has been identified as a global pandemic and ?a threat to world security? by the Clinton administration. President George W. Bush has pledged \$15 billion to combat AIDS. AIDS is perhaps the most-researched yet most-misunderstood disease in the world, about which the most mis-information is spread for political purposes. This timely and well-researched book strives to re-open the scientific debate about AIDS and to introduce fresh perspectives and unbiased evidence into the public forum. This book is going to press amid news of a major scandal that has triggered a congressional hearing. U.S. government funded researchers in top research institutions have been testing toxic AIDS drugs on 100's of the most vulnerable orphan and foster children over the past two decades, exposing the children to the risks of serious side effects.

Immunological Biomarkers for Tuberculosis Christof Geldmacher 2022-01-31

Models of Protection Against HIV/SIV Gianfranco Pancino 2011-12-02 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/AIDS in the Post-HAART Era: Manifestations, Treatment, Epidemiology

DNA Vaccines Hildegund C. J. Ertl 2003