

Plague Scientists Intrepid Retroviruses Syndrome

PlagueWhitaker's Book ListRetroviruses and DiseaseRetrovirus Biology and Human DiseaseRetroviruses and DiseaseInternational Symposium: Retroviruses and Human PathologyRetroviruses and Insights into CancerRetrovirus Infections of the Nervous SystemInteractions Between Retroviruses and HerpesvirusesInternational Symposium: Retroviruses and Human PathologyHuman Retroviruses and Diseases They Cause Kent Heckenlively Hidesaburo Hanafusa Robert C. Gallo Hidesaburo Hanafusa Robert C. Gallo Jaquelin Dudley Michael B.A. Oldstone Hsing-Jien Kung Robert C. Gallo Jean-Pierre Allain

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on july 22 2009 a special meeting was held with twenty four leading scientists at the national institutes of health to discuss early findings that a newly discovered retrovirus was linked to chronic fatigue syndrome cfs prostate cancer lymphoma and eventually neurodevelopmental disorders in children when dr judy mikovits finished her presentation the room was silent for a moment then one of the scientists said oh my god the resulting investigation would be like no other in science for dr mikovits a twenty year veteran of the national cancer institute this was the midpoint of a five year journey that would start with the founding of the whittemore peterson institute for neuro immune disease at the university of nevada reno and end with her as a witness for the federal government against her former employer harvey whittemore for illegal campaign contributions to senate majority leader harry reid on this journey dr mikovits would face the scientific prejudices against cfs wander into the minefield that is autism and through it all struggle to maintain her faith in god and the profession to which

she had dedicated her life this is a story for anybody interested in the peril and promise of science at the very highest levels in our country

retroviruses and disease presents a relevant summary of the state of knowledge in both human nonhuman retroviruses it highlights significant concepts regarding their commonalities and differences in terms of retroviral systems a section of this book covers the pathogenic human retroviruses and focuses on two these are hltv 1 the first human retrovirus that was isolated and hiv the cause of a potent immunological disorder the life cycle of replication competent retroviruses including the murine leukemia viruses and its functions is discussed in chapters 1 and 2 the focus of the third chapter is the transformation of rous sarcoma virus meanwhile chapter 4 discusses the multiple stages in avian leukosis virus induced b cell lymphoma oncogenes the molecular basis of human cancer are also covered in this book another virus also discussed in this book is the human t cell leukemia virus the book is a good reference for students teachers specialists scientists and researchers in microbiology

this book captures some of the essential developments both historical and current relating to the human retroviruses and the diseases they cause it describes detailed molecular biology and epidemiology of human t leukemia virus type 1 htlv 1

for decades retroviruses have been riding the crest of a wave of experimental research directed toward the identification of an infectious agent of human neoplastic diseases in the early 1970s several scientists successfully demonstrated the presence of retroviruses in numerous animal species and proved their etiological role in some related diseases corresponding findings in humans were somewhat discouraging although financial support for this line of research declined a few dedicated retrovirologists survived and continued to collect more biological information and technological expertise that opened a new approach to the search for a human retrovirus the rewards came with the discovery that the genes responsible for neoplastic transformation oncogenes are of cellular origin and can be shuttled about by retroviruses and with the identification of a new family of human t cell lymphotropic retroviruses htlv from patients with diseases ranging from leukemia to the acquired immunodeficiency syndrome aids an understanding of the role and significance of retroviruses in human pathology requires basic knowledge of the major animal systems studied with this perspective in mind we present here a survey that includes general overviews minireviews on each animal system studied with selected experimental reports and finally a stimulating review of the field of human retrovirology by many of the pioneer scientists

who created it we are especially grateful to profs c a romanzi and g c schito for promoting the organization of the symposium on behalf of the symposium committee we thank e soeri l casarino g p gesu m

this book will contain a series of review articles that focus on retroviral models of human and animal cancers each article will be written by an expert in the field of retrovirology the reviews will summarize current work on a particular retrovirus with particular emphasis on the relevance of this research to human disease

although retroviruses have long been associated with a variety of animal diseases active research in the field of human retroviruses dates from the discovery of human immunodeficiency virus hiv in association with acquired immunodeficiency syndrome aids the enormous research efforts in this field have been directed toward understanding the nature of the virus and toward its elimination through preventive vaccination and the cure of the disease human t cell leukemia virus htlv i was the first member of the human retrovirus family to be discovered it was implicated as the cause of adult t cell leukemia atl even before the association of hiv and aids was established research on htlv 1 has however been lagging behind that of hiv because of the importance of aids today htlv 1 and possibly closely related htlv 2 are associated with a variety of human neurologic diseases and research activities in this field may show that human retroviruses can cause a variety of human diseases in addition to those affecting the nervous system papers in this volume attempt to acquaint the reader with the present state of research into retrovirus infection and related diseases of the nervous system

retroviruses and herpesviruses are two important human pathogens together they occupy one of the most important places in modern medical virology coinfections of these two viruses in the same individuals are frequently observed especially in patients afflicted with aids potential consequences of such interactions include the exacerbation of the disease changing of the disease courses and the release of new viruses etc an understanding of the underlying mechanism is important but thus far few insights have been gained the present monograph arranged in eight chapters is intended to provide an updated and concise review of recent works regarding the molecular and cellular mechanisms of such interactions the topics covered range from transcriptional regulation receptor modulation genetic recombination to aids and oncogenesis human immunodeficiency virus avian leukosis virus reticuloendotheliosis virus herpes simplex virus cytomegalovirus herpesvirus 6 and marek's disease virus are among the viruses discussed the contributing authors are among the leaders in this field and are responsible for many of the original discoveries presented this should serve as a

valuable research and teaching reference for both beginning and advanced researchers in virology and oncology

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