

Lori Frappier

# EBNA1 and Epstein-Barr Virus Associated Tumours



Springer

# **Ebna1 And Epstein Barr Virus Associated Tumours** **Springerbriefs In Cancer Research**

**Ala-Eddin Al Moustafa, Hussain  
Gadelkarim Ahmed, Ali A.  
Sultan, Gerburg Wulf**



## **Ebna1 And Epstein Barr Virus Associated Tumours Springerbriefs In Cancer Research:**

*EBNA1 and Epstein-Barr Virus Associated Tumours* Lori Frappier, 2013-04-02 This SpringerBrief is comprehensive account of the functions and effects of the Epstein Barr virus EBV EBNA1 protein that relate to EBV associated cancers and evidence for EBNA1 contributions to these cancers EBNA1 was the first EBV protein detected and the most critical for EBV latent infection EBNA1 fulfills multiple functions at EBV genomes which have been described in many sometimes confusing reports over the last 28 years While these were initially thought to be the only roles of EBNA1 many reports in recent years have shown that EBNA1 also directly affects cellular processes in ways that would be expected to contribute to oncogenesis However the degree to which EBNA1 promotes cell survival and oncogenesis in various types of human tumours is not entirely clear and a matter of debate This book offers a current synopsis of EBNA1 functions in EBV latency including functions in DNA replication mitotic segregation and transcription Mechanisms of these EBNA1 functions is also discussed as well as implications for tumourigenesis In addition the cellular effects of EBNA1 will be reviewed including how EBNA1 manipulates specific cellular proteins and relationships to EBV associated lymphomas and carcinomas

**Epidemiology of Brain and Spinal Tumors** Jahangir Moini, Nicholas Avgeropoulos, Mohtashem Samsam, 2021-04-09 Epidemiology of Brain and Spinal Tumors provides a single volume resource on imaging methods and neuroepidemiology of both brain and spinal tumors The book covers a variety of imaging techniques including computed tomography CT MRI positron emission tomography PET and other laboratory tests used in diagnosis and treatment Detailed epidemiology various imaging methods and clinical considerations of tumors of the CNS make this an ideal reference for users who will also find diverse information about structures and functions cytology epidemiology including molecular epidemiology diagnosis and treatment This book is appropriate for neuroscience researchers medical professionals and anyone interested in a complete guide to visualizing and understanding CNS tumors Provides the most up to date information surrounding the epidemiology biology and imaging techniques for brain and spinal tumors including CT MRI PET and others Includes full color figures photos tables graphs and radioimaging Contains information that will be valuable to anyone interested in the field of neurooncology and the treatment of patients with brain and spinal tumors Serves as a source of background information for basic scientists and pharmaceutical researchers who have an interest in imaging and treatment

*Epstein-Barr Virus and Human Cancer* Kenzo Takada, 2001 Most people carry EBV in memory B cells in a latent stage Many malignancies such as T NK cell lymphoma AIDS associated B cell lymphoma gastric carcinoma and Hodgkin s disease have been causally linked to EBV The development of molecular biology technique has allowed the study of the roles of individual EBV genes that act in the maintenance and disruption of EBV latency

**EBV-Associated Carcinomas: Presence, Role and Prevention Strategies** Ala-Eddin Al Moustafa, Hussain Gadelkarim Ahmed, Ali A. Sultan, Gerburg Wulf, 2019-08-16 This Research Topic aspires to provide a platform for research papers reviews perspectives and thought provoking opinions and ideas about EBV infection

and its role in human carcinomas as well as prevention using upcoming vaccine This should pave the way to translate findings into cost effective strategies to eliminate EBV infection and its related cancers worldwide **Cancer Virus** Dorothy H. Crawford, Alan Rickinson, Ingólfur Johannessen, 2014-02 This is the story of the discovery of the first human cancer virus Through intriguing accounts that include some remarkable characters and individual stories from around the globe including the UK Africa USA and China it tells the story of the Epstein Barr virus and the understanding of its connections to a variety of other diseases **Epstein Barr Virus Volume 1** Christian Münz, 2015-09-30 Epstein Barr virus EBV was discovered as the first human tumor virus around 50 years ago Since its discovery in Burkitt's lymphoma it has been associated with various other malignancies infectious mononucleosis and even autoimmune diseases The two book volumes on EBV summarize the first 50 years of research on this tumor virus starting with historical perspectives on discovery oncogenicity and immune control reviewing the role that the virus plays in the various associated diseases and concluding with a discussion on how the immune system keeps persistent EBV infection under control in healthy EBV carriers and can be used to treat EBV associated diseases The respective 32 chapters are written by international experts from three continents for health care providers biomedical researchers and patients that are affected by EBV The assembled knowledge should help to understand EBV associated diseases better and to develop EBV specific vaccination in the near future **Epstein Barr Virus Volume 2** Christian Münz, 2015-10-01 Epstein Barr virus EBV was discovered as the first human tumor virus around 50 years ago Since its discovery in Burkitt's lymphoma it has been associated with various other malignancies infectious mononucleosis and even autoimmune diseases The two book volumes on EBV summarize the first 50 years of research on this tumor virus starting with historical perspectives on discovery oncogenicity and immune control reviewing the role that the virus plays in the various associated diseases and concluding with a discussion on how the immune system keeps persistent EBV infection under control in healthy EBV carriers and can be used to treat EBV associated diseases The respective 32 chapters are written by international experts from three continents for health care providers biomedical researchers and patients that are affected by EBV The assembled knowledge should help to understand EBV associated diseases better and to develop EBV specific vaccination in the near future **Epstein-Barr Virus and Associated Diseases** P.H. Levine, D.V. Ablashi, G.R. Pearson, S.D. Kottaridis, 2012-12-06 It has been slightly more than two decades since the Epstein Barr virus EBV was discovered by Prof M A Epstein and his colleagues at the University of Bristol in their search for the causative agent of Burkitt's lymphoma For several years EBV was a virus in search of a disease The first documentation that EBV was pathogenic for humans was in 1969 when Drs Gertrude and Werner Henle identified it as the causative agent for infectious mononucleosis Seroepidemiologic and biochemical studies subsequently linked EBV to Burkitt's lymphoma BL nasopharyngeal carcinoma NPC and more recently to the X linked lymphoproliferative syndrome With its widespread pattern of infection and a predilection for producing clinical signs and symptoms in only certain individuals EBV has provided a

model for many other candidate oncogenic viruses including papilloma viruses herpes simplex and HTLV LAV In 1975 an international workshop was sponsored by the National Cancer Institute to address the problem of EBV production thus facilitating basic research on the virus This proved to be the last international meeting on EBV for almost a decade In the past progress in both clinical and basic research on EBV has been presented in two types of international meetings the international herpesvirus workshops devoted primarily to basic research on both human and animal herpesviruses and the international symposia on NPC in which EBV related studies were interspersed with clinical epidemiologic and other etiologic aspects of this important human neoplasm

*Epstein-Barr Virus: New Insights for the Healthcare Professional: 2012 Edition*, 2012-12-10 Epstein Barr Virus New Insights for the Healthcare Professional 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Epstein Barr Virus The editors have built Epstein Barr Virus New Insights for the Healthcare Professional 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Epstein Barr Virus in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Epstein Barr Virus New Insights for the Healthcare Professional 2012 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>

**The Epstein-Barr Virus** M. A. Epstein, B. G. Achong, 2012-12-06 The Epstein Barr virus was discovered 15 years ago Since that time an immense body of information has been accumulated on this agent which has come to assume great significance in many different fields of biological science Thus the virus has very special relevance in human medicine and oncology in tumor virology in immunology and in molecular virology since it is the cause of infectious mononucleosis and also the first human cancer virus etiologically related to endemic Burkitt's lymphoma and probably to nasopharyngeal carcinoma In addition continuous human lymphoid cell lines initiated and maintained by the transforming function of the virus genome provide a laboratory tool with wide and ever growing applications Innumerable papers on the Epstein Barr virus have appeared over recent years and reports of work with this agent now constitute a veritable flood The present book provides the first and only comprehensive authoritative overview of all aspects of the virus by authors who have been the original and major contributors in their particular disciplines A complete and up to date survey of this unique and important agent is thus provided which should be of great interest to experts teachers and students engaged in cancer research virology immunology molecular biology epidemiology and cell culture Where topics have been dealt with from more than one of these viewpoints some inevitable overlap and duplication has resulted although this has been kept to a minimum it has been retained in some places because of positive usefulness

**Epstein-Barr Virus and Human Disease** P. H. Levine, D. V. Ablashi, M.

Nonoyama,G. R. Pearson,R. Glaser,2012-12-06 Since its discovery as the cause of infectious mononucleosis in 1964 the Epstein Barr virus EBV has been etiologically implicated in an increasing number of human diseases Generally considered the first human oncogenic virus because of a number of studies linking it with Burkitt s lymphoma and nasopharyngeal carcinoma NPC as well as its documented oncogenicity in nonhuman primates EBVhas served as a model for identifying subsequent candidate oncogenic viruses and the stimulus for Evans revision of the Henle Koch postulates to accommodate the problems in proving viral oncogenicity in humans Research on the role of EBV in human cancer was particularly enhanced a by the pioneering work of Werner and Gertrude Henle and b by the coordinated efforts of the Special Virus Leukemia Program and its successors the Special Virus Cancer Program and the Virus Cancer Program of the National Cancer Institute NCI Initiated by Dr Frank J Rauscher who subsequently became director of the NCI and is now Vice President of the American Cancer Society and expanded by Dr John B Moloney whose contributions to cancer research were honored at this Second International Symposium on EBV and Associated Malignant Diseases these NCI contract supported programs brought together investigators from all over the world to participate in a joint effort to unravel the mystery of EBV behavior and pathogenicity It was these programs that gave us the opportunity to work with such outstanding people as Professor Yohei Ito to whom this book is dedicated

Epstein-Barr Virus (EBV) Jan Styczynski,2014 The Epstein Barr Virus EBV also known as Human Herpes Virus 4 has been identified and described as the etiological agent of infectious mononucleosis It is the first human virus found to be implicated in oncogenesis EBV is associated with a number of biologically diverse cancers mainly lymphoproliferations of B cell origin With the development of basic research and clinical medicine new ideas related to the pathogenesis and clinical aspects of EBV associated diseases have arisen recently A significant progress in the number of hematopoietic stem cell and solid organ transplantations performed world wide involving high risk patients has contributed to an increase in the development of EBV associated malignant post transplant lymphoproliferative disorders In the stem cell transplant setting a post transplant lymphoproliferative disorder has in most cases the nature of a secondary cancer Apart from post transplant lymphoproliferative disorders other types of lymphoproliferative disorders are recognised and presented in this book

Epstein-Barr Virus ,2021-12-22 Epstein Barr virus EBV is a fascinating microorganism as a double faceted viral agent After primary infection it can persist throughout a person s lifetime in a latent form from which it can reactivate following specific stimuli i e immunodepression Unlike other herpesviruses EBV reactivates a countless number of times with such a high replication rate that it is unable to be controlled by conventional anti herpesvirus drugs Moreover for various reasons no vaccine is currently available in the market This book presents a comprehensive overview of EBV including information on its potential for oncogenic activity its various isolates and possible vaccine candidates

**New Developments in Epstein-Barr Virus Research** Constantine S. Umar,2006 Epstein Barr virus frequently referred to as EBV is a member of the herpes virus family and one of the most

common human viruses The virus occurs world wide and most people become infected with EBV sometime during their lives In the United States as many as 95 per cent of adults between 35 and 40 years of age have been infected Infants become susceptible to EBV as soon as maternal antibody protection present at birth disappears Many children become infected with EBV and these infections usually cause no symptoms or are indistinguishable from the other mild brief illnesses of childhood In the United States and in other developed countries many persons are not infected with EBV in their childhood years When infection with EBV occurs during adolescence or young adulthood it causes infectious mononucleosis 35 per cent to 50 per cent of the time EBV also establishes a lifelong dormant infection in some cells of the body s immune system A late event in a very few carriers of this virus is the emergence of Burkitt s lymphoma and nasopharyngeal carcinoma This new book presents leading research from around the world in this field Epstein-Barr Virus Alex Tselis, Hal B. Jenson, 2006-03-08 Filling a gap in the literature this guide analyzes EBV infection and all of its associated disorders including infectious mononucleosis Burkitt lymphoma and Hodgkin s disease Opening with a historical introduction the reference progresses from molecular virology epidemiology immunology and pathology to clinical presentation diagnosis dis Development of Epstein-Barr Virus Vaccines Andrew J. Morgan, 1995 This book is about the development of the Epstein Barr virus vaccine which may ultimately eliminate or reduce the incidence of the cancers associated with this virus in humans These include nasopharyngeal carcinoma endemic Burkitts lymphoma and certain lymphomas which occur with a relatively high frequency in immunosuppressed patients and AIDS sufferers Such vaccines may also be deployed in the prevention of infectious mononucleosis a disease which although rarely fatal has a significant social and economic impact on the young adult population in the Western World Several candidate vaccines based on recombinant viral envelope glycoproteins and a range of viral vectors have been evaluated in a primate animal model of lymphoma induced by the virus **Tumor Virus Infections—Advances in Research and Treatment: 2012 Edition** ,2012-12-26 Tumor Virus Infections Advances in Research and Treatment 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Tumor Virus Infections The editors have built Tumor Virus Infections Advances in Research and Treatment 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Tumor Virus Infections in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Tumor Virus Infections Advances in Research and Treatment 2012 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> **Contributions of Epstein-Barr Nuclear Antigen 1 (EBNA1) to Epithelial Cell Infections** Nirojini Sivachandran, 2011 Epstein Barr virus EBV latent infection is associated with lymphoid

and epithelial tumours including nasopharyngeal carcinoma NPC and gastric carcinoma GC Since EBNA1 protein is expressed in all EBV tumours I explored whether EBNA1 alters the cellular environment in ways that would contribute to the development of these epithelial tumours I have shown that EBNA1 disrupts nuclear bodies NBs formed by the PML tumor suppressor and degrades PML proteins in a proteasome dependent manner in NPC and GC cell lines I have verified the role of EBNA1 in disrupting PML NBs through overexpression and silencing of EBNA1 and shown that EBNA1 alone is sufficient to mediate these effects Using EBNA1 mutants I found that USP7 and protein kinase CK2 two enzymes that negatively regulate PML NBs are important for EBNA1 mediated disruption of PML NBs Furthermore I have shown that EBNA1 localizes to PML NBs and interacts with PML IV which mediates the enrichment of USP7 and CK2beta with PML NBs and increases CK2 phosphorylation of PML proteins a known prerequisite for PML degradation Consequently functions downstream of PML were impaired in the presence of EBNA1 In particular cells expressing EBNA1 had decreased levels of p53acetylation p21 and apoptosis in response to DNA damage Furthermore DNA repair was markedly impaired in these cells despite the fact that they survived better after induction of DNA damage than cells lacking EBNA1 In keeping with these observations immunohistochemistry staining of GC biopsies showed that EBV positive GC biopsies had lower PML staining compared to EBV negative samples These results show that EBNA1 directly affects host cell processes that would be expected to promote malignant transformation Additionally I have shown that EBNA1 s ability to disrupt PML NBs is important for reactivation of EBV from latency hence is required for efficient spread of EBV from host to host

*Epstein-Barr Virus and Human Disease* · 1990 D. V. Ablashi, A. T. Huang, J. S. Pagano, G. R. Pearson, C. S. Yang, 2012-12-06

The Epstein Barr virus EBV isolated in 1966 continues to draw worldwide attention as an important human pathogen Its importance is largely related to the continuing accumulation of evidence that implicates EBV as an etiological factor for certain types of human cancer More recent investigations on this virus have focused on the identity of the viral genes responsible for the different disease manifestations observed following viral infection It is hoped that by thorough investigation of this virus clues to how cancer develops from a normal cell will surface In addition many of the gene products are now being exploited for the development of new and more sensitive tests for the diagnosis and clinical management of individuals with EBV associated diseases Thus studies on this virus continue to provide new information of importance to our understanding of the malignant process In an effort to attract both basic and clinical scientists to the same meeting for purposes of scientific exchange and fostering a closer interaction between these individuals a series of international symposia was initiated in 1984 The first meeting was held in Loutraki Greece and was attended by approximately 100 participants The second international symposium was held in St Petersburg Florida in 1986 and was attended by approximately twice as many participants as attended the Loutraki meeting

*Epstein-Barr Virus-associated Carcinoma Arising Outside the Nasopharynx* ,1998



## **Ebna1 And Epstein Barr Virus Associated Tumours Springerbriefs In Cancer Research** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ebna1 And Epstein Barr Virus Associated Tumours Springerbriefs In Cancer Research**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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