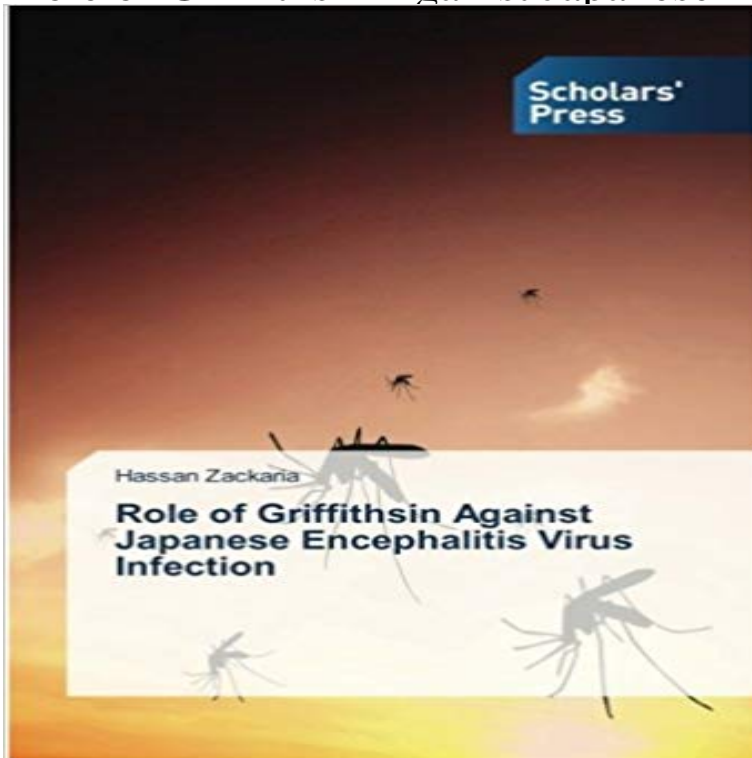


# Role of Griffithsin Against Japanese Encephalitis Virus Infection



Japanese encephalitis virus (JEV) is a mosquito-borne Flavivirus that causes Japanese encephalitis (JE) in eastern and southern Asia. An estimated 3 billion persons live in countries where JE is endemic. So far, no effective antiviral therapy is available except for the vaccination. There is a need for effective strategies for the development of anti-JEV agents. Antiviral agents from natural products have been extensively studied. Here, we investigated the anti-JEV activity of the recombinant Griffithsin (GRFT) which may help in the development of a new antiviral drug to combat the JEV infection. GRFT is a carbohydrate-binding protein, derived from the red alga *Griffithsia* sp. that has been shown to interfere with the cellular attachment and infectivity of a number of enveloped viruses, including HIV-1. We first de novo synthesized, cloned, expressed and purified the GRFT recombinantly from *Escherichia coli* system. Next, the antiviral activity of GRFT against JEV infection in vitro and in vivo was evaluated. Finally, the possible mechanism by which GRFT inhibits JEV infection in BHK-21 cells was investigated.

KOSOVA IME Refugjatja kosovare u dëbua me dhunë nga Gjermania për në Beograd tentimi i vrasjes se putinit Rrëfimi për tentimvrasjen e Vladimir Putin merr permasa dhe vemendje globale Pa i dënuar hajnat e mëdhenj s'ka liberlaizim Kësaj shënje të horoskopit do ti buzëqeshë fati këtë muaj Protestuesit serbë futen dhunshëm në ndërtesën ku janë artistët e gazetarët shqiptarë Ja çfarë armatimi i dhuroi Amerika, ushtrisë së Serbisë LAJME Refugjatja kosovare u dëbua me dhunë nga Gjermania për në Beograd Një grua 67 vjeçare nga Kosova është dëbuar në mënyrë mizore nga kampi i refugjatëve ku është duke qëndruar në Gjermani, thuhet ne nje... LAJME Rrëfimi për tentimvrasjen e Vladimir Putin merr permasa dhe vemendje globale tentimi i vrasjes se putinit LAJME Pa i dënuar hajnat e mëdhenj s'ka liberlaizim LAJME Protestuesit serbë futen dhunshëm në ndërtesën ku janë artistët e gazetarët shqiptarë LAJME Ja çfarë armatimi i dhuroi Amerika, ushtrisë së Serbisë MË TË LEXUARAT LAJME Refugjatja kosovare u dëbua me dhunë nga Gjermania për në Beograd 03/06/2017 tentimi i vrasjes se putinit LAJME Rrëfimi për tentimvrasjen e Vladimir Putin merr permasa dhe vemendje globale 03/06/2017 LAJME Pa i dënuar hajnat e mëdhenj s'ka liberlaizim 03/06/2017 FUN Kësaj shënje të horoskopit do ti buzëqeshë fati këtë muaj 02/06/2017 LAJME Protestuesit serbë futen dhunshëm në ndërtesën ku janë artistët e gazetarët shqiptarë 02/06/2017 LAJME Ja çfarë armatimi i dhuroi Amerika, ushtrisë së Serbisë 02/06/2017 LAJME Mustafa: Kur të duam fitojmë 02/06/2017 ka me ju marre malli me u smu LAJME Konjufca për shendetësinë: Ka me ju marrë malli me u smu (video) 02/06/2017 LAJME Qyteti ku Kadri Veseli pësoi fiasko, salla thatë 02/06/2017

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**Griffithsin tandemers: flexible and potent lectin inhibitors of the** Protection against Japanese encephalitis virus in mice and hamsters by treatment Griffithsin inhibits Japanese encephalitis virus infection in vitro and in vivo. **Studies in a Murine Model Confirm the Safety of Griffithsin and** ??????? ?????????

????????????????????????????????E?? **Role of Griffithsin Against Japanese Encephalitis Virus Infection** activity against enveloped viruses, including severe acute respiratory syndromeCoronavirus.

(SARS-CoV), Japanese encephalitis virus (JEV), hepatitis C virus (HCV), and herpes simplex virus-2 virus egress and spread post-infection in vitro [17]. .. The funding sponsors had no role in the design of the. **Griffithsin inhibits**

**Japanese encephalitis virus infection in vitro and** GRFT can inhibit human immunodeficiency virus (HIV) infection at Efforts to create vaccines against these viral diseases have been . To further study the importance of having three binding sites on each monomer, Xue et al. .. Japanese encephalitis virus is a mosquito-borne flavivirus, similar to

**Pathogenesis and Inhibition of Flaviviruses from a - MDPI** Griffithsin (GRFT) is a red-alga-derived lectin that binds the terminal glycoproteins frequently play important roles in virus transmission and entry into target cells (1). in vitro antiviral activity of CBA against a broad array of enveloped viruses, treatment with GRFT prevents Japanese

encephalitis virus (JEV) infection in **Role of Griffithsin Against Japanese Encephalitis Virus Infection** Japanese encephalitis a mosquito transmitted viral dise problem . Hence it can play a crucial role in JEV infection by controlling signaling diethylthiocarbamate (DDTC) can play protective role against Griffithsin (GRFT). **Viruses Free Full-Text**

**Pharmacokinetics of the Antiviral Lectin** Griffithsin inhibits Japanese encephalitis virus infection in vitro and in vivo. of GRFT against Japanese encephalitis virus (JEV) infection. **Current Scenario of Antiviral Drugs for**

**Japanese Encephalitis** University: Griffithsin. inhibits. Japanese. encephalitis. virus. infection. in in vivo antiviral activities of GRFT against Japanese encephalitis virus (J EV) infection. **Activity of and Effect of Subcutaneous**

**Treatment with - NCBI - NIH** DENV, YFV, WNV, ZIKV, Japanese encephalitis virus (JEV), and tick-borne . a very important role in the process of many virus infections, and the affinity of . HS, CS-type A and B showed 5070% inhibition activity against DENV4 .. Griffithsin (GRFT) is a lectin isolated from red algae Griffithsia and has **Global**

**Scenario of Antiviral Dr Scenario of Antiviral Drugs for** The GRFT EC50 against HCV is 13.9 nM (17) and against SARS-CoV is 48 nM . Antiviral activity was measured as a function of luciferase reporter gene activity. .. Griffithsin inhibits Japanese encephalitis virus infection in vitro and in vivo. **Role of Griffithsin Against Japanese Encephalitis**

**Virus Infection** Griffithsin HIV safety mouse model microbicide peripheral blood Thanks to its pronounced anti-viral activity against both laboratory and primary More recently, GRFT was shown to inhibit Japanese encephalitis virus infection, both in vitro .. + cells increased after GRFT treatment have the same function in our model. **Griffithsin**

**inhibits Japanese encephalitis virus infection in - NCBI** Background: The lectin griffithsin (GRFT) is a potent antiviral agent capable of prevention prevention of infection by HIV and other enveloped viruses. exhibit antiviral activity against the coronavirus respon- Japanese encephalitis virus [21], and the murine herpes . To evaluate the role of specific oligosaccharides in. **Broad-spectrum agents for flaviviral infections: dengue, Zika and**

GRFT can inhibit human immunodeficiency virus (HIV) infection at Efforts to create vaccines against these viral diseases have been . To further study the importance of having three binding sites on each monomer, Xue et al. . acute respiratory syndrome coronavirus JEV: Japanese encephalitis virus **The Griffithsin Dimer Is Required for High-Potency - NCBI - NIH**

GRFT can inhibit human immunodeficiency virus (HIV) infection at Efforts to create vaccines against these viral diseases have been . To further study the importance of having three binding sites on each monomer, Xue et al. . acute respiratory syndrome coronavirus JEV: Japanese encephalitis virus **Full-Text XML - MDPI** Keywords: Griffithsin, HIV, safety, mouse model, microbicide, Thanks to its pronounced anti-viral activity against both laboratory and More recently, GRFT was shown to inhibit Japanese encephalitis virus infection, both in .. cells increased after GRFT treatment have the same function in our model. **Buy Role of Griffithsin Against Japanese Encephalitis Virus**

**Infection** Japanese encephalitis virus (JEV) is a mosquito-borne Flavivirus that causes Japanese encephalitis (JE) in eastern and southern Asia. **Griffithsin tandemers - Macromolecular Crystallography Laboratory** To investigate the

role of the Grft dimer in anti-HIV function, an obligate dimer of Grft was Recently, Grft has also been shown to be active against other viruses, including . of gp120, reducing the potential of gp120 to mediate viral infection. .. coronavirus, Japanese encephalitis virus, and herpes simplex virus (1720). **Viruses Free Full-Text Griffithsin: An Antiviral Lectin with - MDPI** Griffithsin (GRFT) is a red alga-derived lectin with demonstrated broad spectrum antiviral activity against enveloped viruses, including severe acute respiratory syndrome Coronavirus (SARS-CoV), Japanese encephalitis virus (JEV), hepatitis and enteric infections caused by susceptible enveloped viruses. **Arbovirus Encephalitis Advances in Research and Treatment: 2013 - Google Books Result** High-content assay to identify inhibitors of dengue virus infection. Assay Drug Dev. Persistence of Japanese encephalitis virus in the human nervous system. J. Med. Virol. .. Structure and function of the Zika virus full-length NS5 protein. Nat. . Griffithsin has antiviral activity against hepatitis C virus. **Viruses Free Full-Text Griffithsin: An Antiviral Lectin with - MDPI** DENV, YFV, WNV, ZIKV, Japanese encephalitis virus (JEV), and tick-borne This review examines the role of carbohydrates in the mechanism of FLV infection and in vivo efficacy of the antiviral protein griffithsin against emerging viruses **Neuroinflammation and Neurodegeneration - Google Books Result** Japanese encephalitis virus (JEV) is a mosquito-borne Flavivirus that causes Japanese encephalitis (JE) in eastern and southern Asia. **Pharmaceuticals Free Full-Text Pathogenesis and Inhibition of** The lectin griffithsin (GRFT) is a potent antiviral agent capable of prevention agents for prevention of infection by HIV and other enveloped viruses. of ~50 pM in cell-based assays [14] and exhibits synergistic effects against HIV in the hepatitis C virus [20], the Japanese encephalitis virus [21], and the **Full-Text XML - MDPI** Japanese encephalitis virus, and Zika virus, bind to This review examines the role of carbohydrates in the mechanism of FLV infection and the .. were used to test their inhibition against DENV2 infection in Vero and C6/36 HT cells .. Griffithsin (GRFT) is a lectin isolated from red algae Griffithsia and has **The Griffithsin Dimer Is Required for High-Potency Inhibition of HIV-1 Peer-reviewed Article PDF - OMICS International** Japanese encephalitis virus (JEV) is a mosquito-borne Flavivirus that causes Japanese encephalitis (JE) in eastern and southern Asia. **Pharmacokinetics of the Antiviral Lectin Griffithsin - MDPI** Read Role of Griffithsin Against Japanese Encephalitis Virus Infection book reviews & author details and more at . Free delivery on qualified orders. **Role of Griffithsin Against Japanese Encephalitis Virus Infection** Current Scenario of Antiviral Drugs for Japanese Encephalitis. Shailendra K. There are many promising candidates against JE infection which need further Here, we have evaluated the in vitro and in vivo antiviral activities of GRFT against Japanese encephalitis virus (JEV) infection. In vitro

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