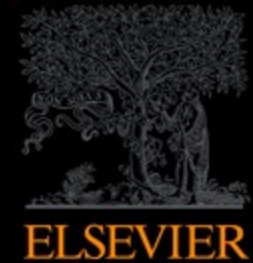




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Antiviral Research
Volume 153, July 2018, Pages 89–96



Effect of interferon alpha and cyclosporine treatment separately and in combination on Middle East Respiratory Syndrome Coronavirus (MERS-CoV) replication in a human in-vitro and ex-vivo culture model

H.S. Li^a, Denise I.T. Kook^a, M.C. Cheung^a, Mandy M.T. Ng^a, K.C. Ng^a, Kamrie R.Y. Hui^a, J.S. Malik Peiris^a, Michael C.W. Chan^a , John M. Nicholls^a 

Abstract

Middle East Respiratory Syndrome Coronavirus (MERS-CoV) has emerged as a coronavirus infection of humans in the past 5 years. Though confined to certain geographical regions of the world, infection has been associated with a case fatality rate of 35%, and this mortality may be higher in ventilated patients. As there are few readily available animal models that accurately mimic human disease, it has been a challenge to ethically determine what optimum treatment strategies can be used for this disease. We used in-vitro and human ex-vivo explant cultures to investigate the effect of two immunomodulatory agents, interferon alpha and cyclosporine, singly and in combination, on MERS-CoV replication. In both culture systems the combined treatment was more effective than either agent used alone in reducing MERS-CoV replication. PCR SuperArray analysis showed that the reduction of virus replication was associated with a greater induction of interferon stimulated genes. As these therapeutic agents are already licensed for clinical use, it may be relevant to investigate their use for therapy of human MERS-CoV infection.

Cyclosporine

Cyclosporine (CyA) is a potent immunosuppressive agent that, when used in low doses, is an effective therapy for many autoimmune diseases.

from: [Pediatric Allergy: Principles and Practice \(Second Edition\)](#), 2010

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Cyclosporine

Neil K.I. Russell, ... Peter J. Morris, in [Kidney Transplantation \(Sixth Edition\)](#), 2008

Antiviral Effects

Cyclosporine may possess anti—human immunodeficiency virus (HIV) and anti—hepatitis C virus (HCV) properties. It has been shown that cyclophilin A (the intracellular protein with which cyclosporine binds) is involved in the maturation and replication of HIV-1, and that by cyclosporine binding to cyclophilin A this process can be altered.³¹⁷ The use of cyclosporine in HIV-1-infected individuals has been shown to increase the CD4 count and to reverse HIV-associated

Cyclosporine

Vidhi V. Shah BA, ... Jashin J. Wu MD, in [Therapy for Severe Psoriasis](#), 2016

Introduction

Cyclosporine (CsA) is an effective medication used for the treatment of severe plaque psoriasis in adult patients.¹ It is commonly known for its ability to effectively prevent allograft rejection and is widely administered following kidney, liver, and heart transplantation. The capability of CsA to drastically reduce immunologic activity within short time spans has also made it a popular drug of choice for the treatment of various immune-mediated disorders, including

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The screenshot shows the ScienceDirect Topics page for 'Encephalitis'. It includes a header with 'ScienceDirect' and 'Journals Books'. A breadcrumb trail says 'Back to article > Encephalitis'. The main content area has a dark header with 'Encephalitis' and a brief definition: 'Encephalitis is an acute inflammation of the brain commonly caused by a viral infection. From: Encyclopedia of Neuroscience, 2009'. To the right is a 'Related terms' box listing: 'Enterovirus, HSV, Herpes simplex virus type 1, Viral encephalitis, Bulbar polio, Epidemiology, VZV, Aseptic meningitis, Flavivirus, Herpes simplex virus 1'. Below this is a section 'Learn more about Encephalitis' with two columns. The left column is titled 'Encephalitis' and shows an introduction from 'Handbook of Clinical Neurology, 2014.' by Karen L. Roos. The right column is titled 'Viral Infections' and shows a section on 'Western Equine Encephalitis' from 'Textbook of Clinical Neurology (Third Edition), 2007.' by Karen L. Roos. Four orange circles with numbers 1-4 point to specific elements: 1 points to the main title 'Encephalitis', 2 points to the 'Related terms' box, 3 points to the 'Encephalitis' section header in the 'Learn more' section, and 4 points to the source information 'From: Encyclopedia of Neuroscience, 2009'.

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Encephalitis

Encephalitis is an acute inflammation of the brain commonly caused by a viral infection.
From: Encyclopedia of Neuroscience, 2009

Related terms

Enterovirus, HSV, Herpes simplex virus type 1, Viral encephalitis, Bulbar polio, Epidemiology, VZV, Aseptic meningitis, Flavivirus, Herpes simplex virus 1

Learn more about Encephalitis

Encephalitis

Karen L. Roos, in *Handbook of Clinical Neurology*, 2014.

Introduction

Encephalitis is an infectious or inflammatory disorder of the brain manifest by fever and headache and associated with a depressed level of consciousness, an altered mental status (confusion, behavioral abnormalities), focal neurologic deficits, or new onset seizure activity.

This chapter will address the viral etiologies of encephalitis. Other chapters in this volume address the bacterial, fungal, spirochetal, and parasitic etiologies of encephalitis. The California Encephalitis Project was initiated in 1998 to improve the understanding of the disease.

Viral Infections

Karen L. Roos, in *Textbook of Clinical Neurology (Third Edition)*, 2007.

Western Equine Encephalitis

Western equine encephalitis tends to occur in children younger than age 1 year and in adults older than age 50.⁵⁴ Inapparent infections with western equine encephalitis virus are more common than symptomatic cases. Like the other arthropod-borne encephalitides, western equine encephalitis begins with an influenza-like syndrome of fever, malaise, myalgias, pharyngitis, and vomiting. As the disease progresses, irritability, convulsions, or coma develops.⁴⁹

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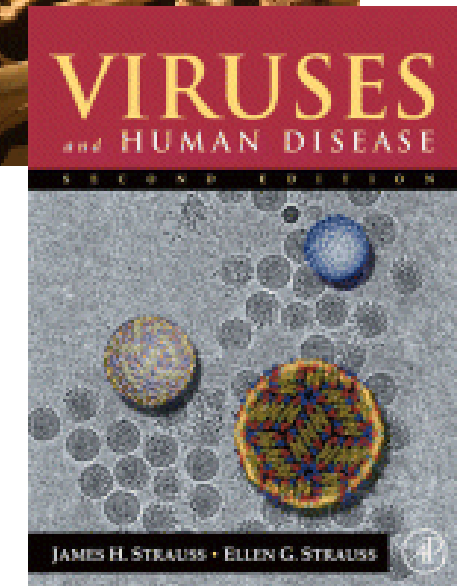
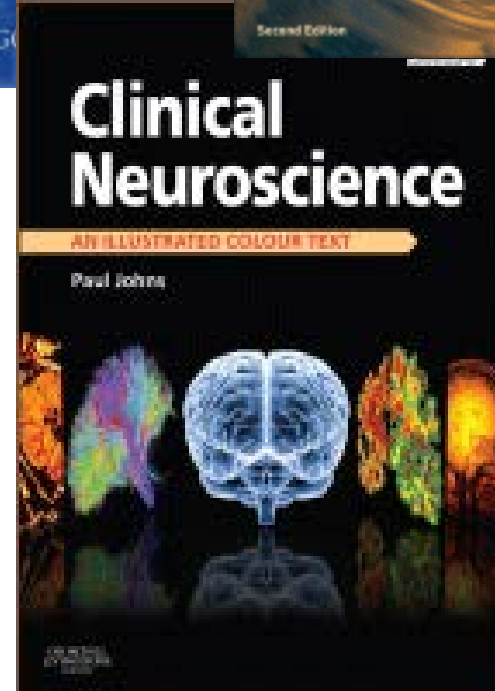
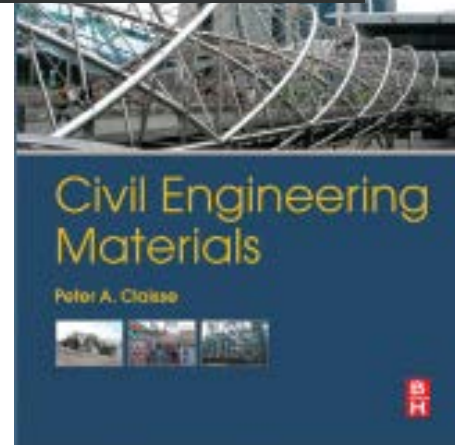
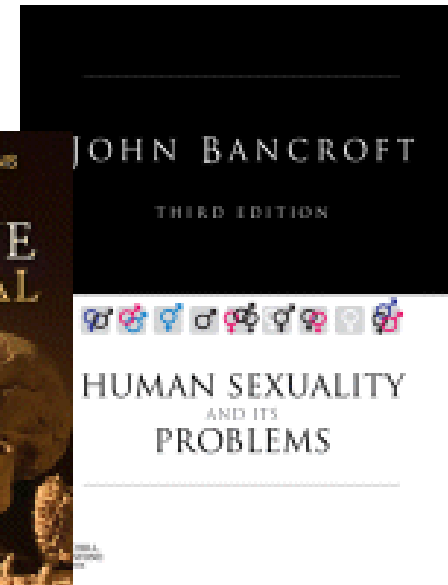
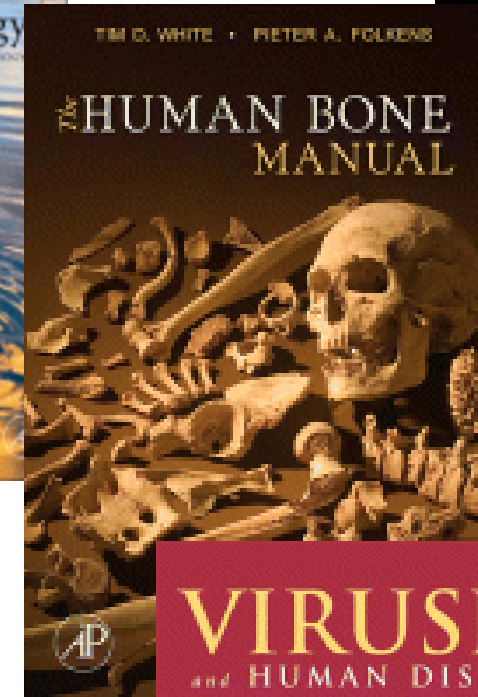
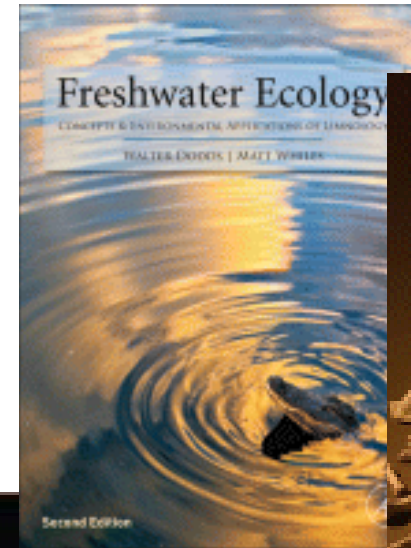
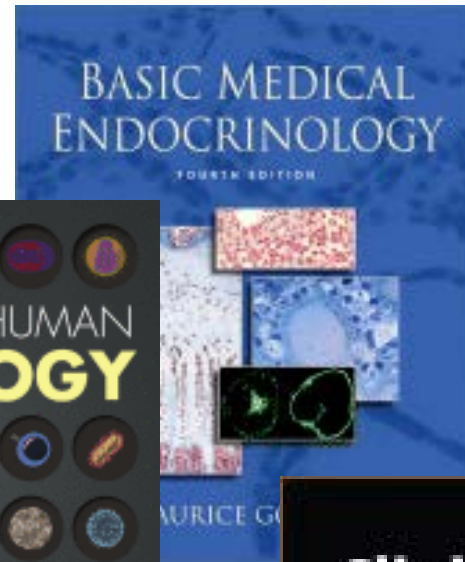
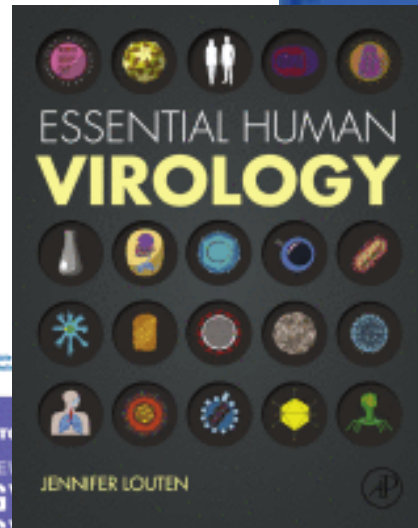
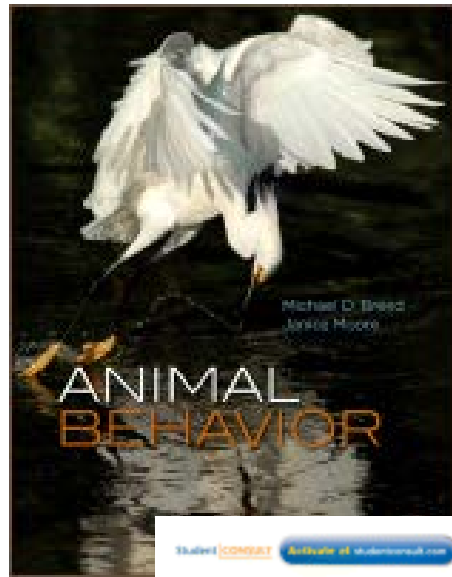
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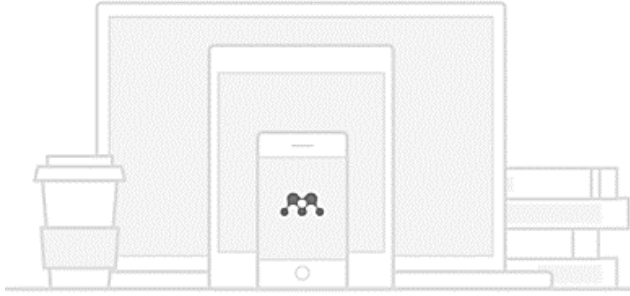
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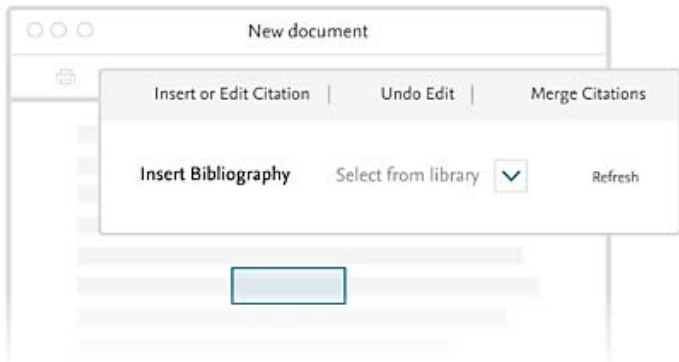
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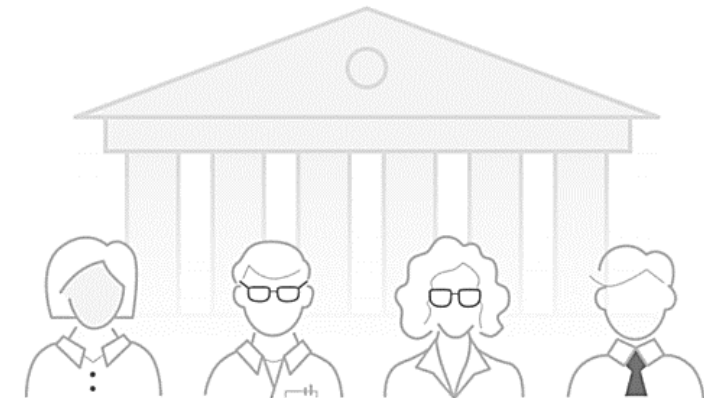


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¡Gracias!

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