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## **Cancer Gene Therapy By Viral**

Virus used in gene therapies may pose cancer risk, dog study hints. By Jocelyn Kaiser  
Jan. 6, 2020 , 8:00 AM.

Just as gene therapy finally seems to be living up to its promise, a study has revived ...

## **Virus used in gene**

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## **therapies may pose cancer risk, dog ...**

The genetic modification of viral genomes, which was the basis for the development of viral vaccines, has become the framework for developing another approach for cancer therapy using oncolytic viruses.

## **Recombinant Viruses for Cancer Therapy**

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Oncolytic adenoviruses

(OAs) have shown

great potential for

cancer viral gene

therapy in clinical

studies. To date,

clinical trials have

shown that the

curative efficacy of OAs

is still limited by

hepatic sequestration

and preexisting

neutralizing antibodies

(nAbs), which decrease

the accumulation of

the OAs in tumors.

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**Biosilicified  
oncolytic adenovirus  
for cancer viral gene**

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...  
Focusing on speeding the process in clinical cancer care by bringing therapies as quickly as possible from bench to bedside, Cancer Gene Therapy by Viral and Non-viral Vectors is an absolutely vital book for physicians, clinicians, researchers, and students involved in this area of

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medicine.

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Vincenzo Cerullo, Kilian  
Guse, Markus Vaha-  
Koskela and Akseli  
Hemminki 2.

Retroviruses for Cancer  
Therapy Jiehua Zhou,  
Yue Ding, John Burnett

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Viral And Non-Viral Vectors  
and John Rossi 3. DNA Plasmids for Non-viral Gene Therapy of Cancer Amer N. Najjar, Judy S.E. Moyes and Laurence J.N. Cooper 4.

## **Cancer gene therapy by viral and non-viral vectors (Book**

...

VGX-3100 is also a gene therapy for cervical cancer, as well as for other cancers caused by human papillomavirus. This

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therapy uses a unique approach to gene delivery, called Celectra: DNA with a gene of interest, like papilloma virus antigen, is loaded into a proprietary device that sends it into skin by an electric impulse.

### **Gene Therapies of Cancer - First Few of The Upcoming Wave**

...

The second approach consists of deleting

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another viral gene ( $\gamma$ -34.5 gene), which functions as a virulence factor during HSV-infection. 163 Mutations in this gene also result in a block to ...

## **Selectively replicating viral vectors | Cancer Gene Therapy**

Therefore, viral and non-viral gene delivery systems have been developed to establish

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an ideal delivery vector for cancer gene therapy over the past several years. Among the currently developed virus vectors, the adeno-associated virus (AAV) ...

## **Cancer gene therapy using adeno-associated virus vectors**

An oncolytic virus is a virus that preferentially infects and kills cancer

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- Translational Oncology

cells. As the infected cancer cells are destroyed by oncolysis, they release new infectious virus particles or virions to help destroy the remaining tumour. Oncolytic viruses are thought not only to cause direct destruction of the tumour cells, but also to stimulate host anti-tumour immune system responses.

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**Oncolytic virus -**

**Wikipedia**

Non-Viral TCR Gene Therapy -

NCT04102436.

Background: A person's white blood cells can be modified in a lab to recognize certain changes in their tumor.

**Non-Viral TCR Gene Therapy - National Cancer Institute**

Combination

suicide/cytokine gene therapy as adjuvants to

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Viral Vaccines  
- Translational  
Oncology  
a defective herpes  
simplex virus-based  
cancer vaccine Gene  
Ther 2001 8: 332-339  
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## **Immuno-viral therapy of brain tumors ... - Cancer Gene Therapy**

Expert opinion:  
Metastatic breast  
cancer is a perfect  
candidate for gene  
therapy approaches  
due to the presence of

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several tumor antigens and the aberrant expression of many molecular pathways.

Oncolytic vectors are able to attack tumor cells while sparing normal cells and their activity is often enhanced by the administration of chemotherapy.

## **Viral gene therapy for breast cancer: progress and challenges**

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18. Herpes Simplex  
Type 1 for Use in  
Cancer Gene Therapy:  
Looking Backward to  
Move Forward. By  
Breanne Cuddington  
and Karen Mossman.  
2075: Open access  
peer-reviewed. 19.  
Gene Therapy of  
Melanoma Using  
Inactivated Sendai  
Virus Envelope Vector  
(HVJ-E) with Intrinsic  
Anti-Tumor Activities.  
By Yasufumi Kaneda,  
Eiji Kiyohara, Toshihiro

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Nakajima and ...

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**Viral Gene Therapy |  
IntechOpen**

Cancer treatment has been the major goal of the gene therapy studies over the decades. Although there is no cancer gene therapy drug in the market yet, substantial progress has been made in defining potential targets and in developing viral and nonviral gene delivery

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Viral And Non systems recently.

Numerous genes have been studied as the targets for cancer gene therapy so far.

## **Cancer Gene Therapy | IntechOpen**

Virotherapy is a treatment using biotechnology to convert viruses into therapeutic agents by reprogramming viruses to treat diseases. There are three main

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branches of virotherapy: anti-cancer oncolytic viruses, viral vectors for gene therapy and viral

immunotherapy. These branches utilize three different types of treatment methods: gene overexpression, gene knockout, and suicide gene delivery.

## **Virotherapy - Wikipedia**

With the advent of

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more than 12 different gene therapy drugs for

curing cancer, blindness, immune, and neuronal

disorders, this emerging experimental medical treatment has yet again come in the limelight. The present review article delves into the popular viral vectors used in gene therapy, advances, challenges, and perspectives.

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## Viral And Non Frontiers | Gene Therapy Leaves a Vicious Cycle | Oncology

Viral Therapy of Cancer is essential reading for both basic scientists and clinicians with an interest in viral therapy and gene therapy.

Reviews "The book is easy to read and is likely to be consulted by students, experienced researchers and medical practitioners

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alike."

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**Viral Therapy of  
Cancer | Wiley  
Online Books**

So it is not cancer gene therapy in the true sense of the word. But doctors sometimes refer to it as gene therapy. An example is a drug called T-VEC (talimogene laherparepvec), also known as Imlygic. It uses a strain of the cold sore virus (herpes

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simplex virus) that has  
been changed by  
altering the genes that  
tell the virus how to  
behave.

## **Gene therapy | Cancer in general | Cancer Research UK**

The Gene and Virus  
Therapy Program  
focuses on developing  
new gene-delivery  
systems and gene-  
based and virus-based  
therapies for cancer  
treatment. The

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program is part of  
Mayo Clinic Cancer  
Center. Our program  
has four main research  
focus areas:

Developing novel gene  
and virus platforms for  
use in cancer therapy

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