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Virology 2015 Lecture #26: Viral
gene therapy

2) Cell Culture - Recombinant
Adenovirus Expression System

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Gene Therapy Interview with Dr. Seth
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Pharmaceuticals Virology lecture 1 |

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Virus structure and classification
Season of Scientific Discovery:
Catalyst: Arizona State University
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2) Adeno Associated Virus (AAV) -
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Adenoviral vectors: a potent /u0026
flexible platform for genetic
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~~October 2019 ACIP Meeting~~
~~Unfinished Business /u0026 Dengue~~
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Introduction to virology, biochemistry
of viruses: coronavirus, ebola,

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The potential benefits for global
health that are offered by this field

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reflect the scope and utility of viruses as vaccine vectors for human and veterinary applications, with targets ranging from certain types of cancer to a vast array of infectious diseases.

Viruses as vaccine vectors for infectious diseases and cancer

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Vaccinia viral vectors have been engineered to express various immunizing antigens and used for cancer therapy, including breast cancer, colorectal cancer, glioblastoma, lung cancer, pancreatic cancer and prostate cancer. Modified Vaccinia Ankara (MVA) Vector

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Vaccinia Viral Vector - Creative
Antigens Biolabs

An advantage of using vaccinia-derived vectors is that the vaccinia vectors may carry until 25 kb of foreign DNA without the need for viral deletions. 27 Vaccinia vectors present

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other advantages as a broad host range that permits the infections of primary cultures and many different cell lines, cytoplasmic replication, or the fact that the viral genome does not splice its primary transcripts.

Vaccinia Virus - an overview |

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ScienceDirect Topics

Vaccinia virus (VACV) has been used extensively as the vaccine against smallpox and as a viral vector for the development of recombinant vaccines and cancer therapies. Replication-competent, non-attenuated VACVs induce strong, long-lived humoral and

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cell-mediated immune responses and
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can be effective oncolytic vectors.

Replication-inducible vaccinia virus
vectors with enhanced ...

Scientists have been developing a
number of different viruses as vectors
for vaccines. The different vectors all

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have their own advantages and disadvantages. Several viral vectors belong to the poxvirus family, relatives of vaccinia (the smallpox vaccine). Some members of this family are safe because they cannot replicate (grow) in humans.

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Understanding Viral Vectors for AIDS
Vaccines – CHIPTS ...

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For Ad or vaccinia vectors, this may have a serious impact on vaccine vector efficacy in humans; for the zoonotic virus vectors, such as avipox viruses or NDV, pre-existing immunity is not likely to play as significant a

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role in developmental and clinical applications. Finally, the third consideration for vaccine vector development is the vector ' s genomic capacity for a transgene insert.

Virus Vector - an overview |
ScienceDirect Topics

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They are attractive vaccine vectors as they induce both innate and adaptive immune responses in mammalian hosts. Currently, adenovirus vectors are being tested as subunit vaccine systems for numerous infectious agents ranging from malaria to HIV-1. Additionally, they are being explored

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as vaccines against a multitude of
tumor-associated antigens.

Adenoviruses as vaccine vectors:

Molecular Therapy

Vaccinia virus (VACV or VV) is a large, complex, enveloped virus belonging to the poxvirus family. It has a linear,

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double-stranded DNA genome approximately 190 kbp in length, which encodes approximately 250 genes. The dimensions of the virion are roughly $360 \times 270 \times 250$ nm, with a mass of approximately 5–10 fg. Smallpox was the first disease to be widely prevented by vaccination,

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Vaccinia - Wikipedia

Vaccinia viruses re-engineered to express foreign genes are vectors for production of recombinant proteins, the most common being a vaccine delivery system for antigens.

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Concerns about the safety of the vaccinia virus have been addressed by the development of vectors based on attenuated vaccinia viruses.

Modified vaccinia Ankara - Wikipedia
Viral vectors are tools commonly used by molecular biologists to deliver

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genetic material into cells. This process can be performed inside a living organism or in cell culture. Viruses have evolved specialized molecular mechanisms to efficiently transport their genomes inside the cells they infect. Delivery of genes, or other genetic material, by a vector is

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termed transduction and the infected cells are described as transduced.

Molecular biologists first harnessed this machinery in the 1970s. P

Viral vector - Wikipedia

Viral vector vaccines combine many of the positive qualities of DNA

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Vectors with those of live attenuated vaccines. 1 Like DNA vaccines, viral vector vaccines carry DNA into a host cell for production of antigenic proteins that can be tailored to stimulate a range of immune responses, including antibody, T helper cell (CD4+ T cell), and cytotoxic

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T lymphocyte (CTL, CD8+ T cell) mediated immunity. Viral vector vaccines, unlike DNA vaccines, also have the potential to actively invade host ...

Viral Vector Vaccines - Global Health Primer

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Most viral vaccines are based on attenuated or inactivated viruses. An upside of using vectored vaccines is that they are easy and relatively cheap to make. The adenovirus vector, for example, can be grown up in cells and used for various vaccines. Once you make a viral vector, it is the same for

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all vaccines, says Florian Krammer, a vaccinologist at the Icahn School of Medicine at Mount Sinai.

Vector-Based Vaccines Come to the Fore in the COVID-19 ...

MVA is widely considered as the vaccinia virus strain of choice for

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clinical investigation because of its high safety profile. It also represents an excellent candidate for use as vector system in recombinant vaccine development for gene delivery or vaccination against infectious diseases or tumours, even in immunocompromised individuals.

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Biosafety aspects of modified vaccinia virus Ankara (MVA ...

1.1.3 Vaccinia Virus 1.1.3.1

Generalities. VV is a poxvirus that was clinically used as vaccine for smallpox. The genome of VV is completely sequenced and facilitates the creation

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of recombinant viral vectors that could carry up to 25 kb of foreign DNA without the need for viral gene deletions. 1.1.3.2 Vaccinia Vectors and Genomic Modifications

Vaccinia Virus - an overview | ScienceDirect Topics

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Unlike other viral vectors, such as lentivirus and retrovirus, the risk of insertion mutagenesis is very less in the case of adenoviruses as they do not integrate the viral genome with the host...

What are Adenovirus-Based Vaccines?

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Vaccinia virus was used for smallpox vaccination via inoculation into the superficial layers of the skin of the upper arm. However, with the eradication of smallpox, routine vaccination with vaccinia virus has ceased. Recent interest in vaccinia has focused on its possible usage as a

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Vectors for Immunization against other
viruses.

VACCINIA VIRUS

Panicali D, Grzelecki A, Huang C.

Vaccinia virus vectors utilizing the
beta-galactosidase assay for rapid
selection of recombinant viruses and

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Measurement of gene expression.

Gene. 1986; 47 (2-3):193–199.

Paoletti E, Grady LJ. Transcriptional complexity of vaccinia virus in vivo and in vitro. J Virol. 1977 Sep; 23 (3):608–615.

Vaccinia virus vectors: new strategies

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for producing...
Importantly, we found that vaccination with a B5R deletion virus, followed by boosting with the Gag-expressing virus lacking the majority of the B5 ectodomain, resulted in poorer anti-Gag immune responses. Thus, recombinant vaccinia viruses

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lacking the B5 ectodomain may serve as vaccine vectors in DNA prime-vaccinia boost vaccinations of individuals with pre-existing immunity against vaccinia.

B5-deficient vaccinia virus as a vaccine vector for the ...

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Panicali D, Grzelecki A, Huang C.
Vaccinia virus vectors utilizing the
beta-galactosidase assay for rapid
selection of recombinant viruses and
measurement of gene expression.
Gene. 1986; 47 (2-3):193–199.
[Google Scholar] Reiss J. Detection of
genotoxic properties of mycotoxins

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