

# Viral vector

Viral **vector**s are tools commonly used by molecular biologists to deliver genetic material into cells. This process can be performed inside a living organism (in vivo) or in cell culture (in vitro). Viruses have evolved specialized molecular mechanisms to efficiently transport their **genomes** inside the cells they infect. Delivery of genes by a vector is termed **transduction** and the infected cells are described as transduced. Molecular biologists first harnessed this machinery in the 1970s. Paul Berg used a modified SV40 virus containing DNA from the bacteriophage  $\lambda$  to infect monkey kidney cells maintained in culture.

In addition to their use in molecular biology research, viral vectors are used for **gene therapy** and the development of **vaccines**.

see **Sendai virus**.

see **Plasmid** vector.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

[https://neurosurgerywiki.com/wiki/doku.php?id=viral\\_vector](https://neurosurgerywiki.com/wiki/doku.php?id=viral_vector)

Last update: **2024/06/07 02:55**

