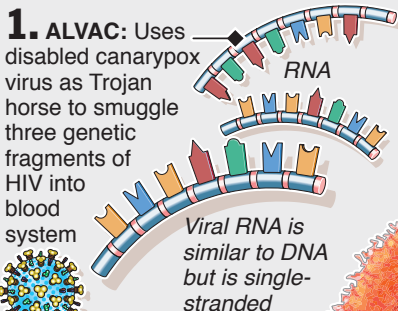


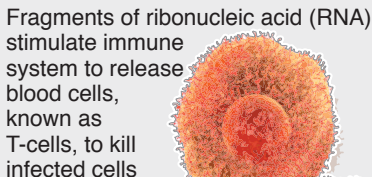
# Twin vaccines help prevent HIV infection

For the first time, an experimental vaccine has prevented infection of the AIDS virus. The \$105 million study used a “prime-boost” combination of vaccines – ALVAC primes the immune system to hunt and kill infected cells and AidsVax boosts antibody production to destroy HIV viruses

**1. ALVAC:** Uses disabled canarypox virus as Trojan horse to smuggle three genetic fragments of HIV into blood system



Fragments of ribonucleic acid (RNA) stimulate immune system to release blood cells, known as T-cells, to kill infected cells



HIV virus

Binders, which dock with receptors on surface of host cell, contain protein gp120

**2. AidsVax:** Contains genetically-engineered version of gp120 protein. This stimulates antibodies to block viral entry mechanism into host cell

Receptors

Antibodies

Binder