



**APPLICATIONS**

**1. Research and medicine**

- disease models
- basic research and knowledge gains
- gene therapy for hereditary diseases, infectious diseases and cancer

**2. Biotechnology**

- seeds
- livestock
- gene drive against malaria mosquitoes (defective genes are rapidly spread through the population by the gene drive system)

**3. Designer organisms**

Adaptation of human embryos, sperm and eggs against genetic disorders – can babies be designed with the desired characteristics in the future? Can scientific amateurs also use the procedure to design organisms on a whim?

