

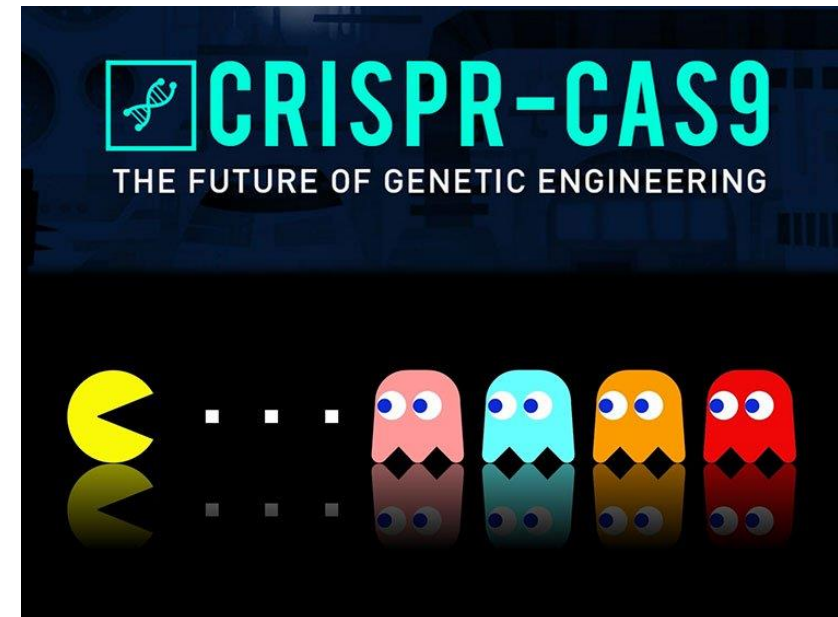
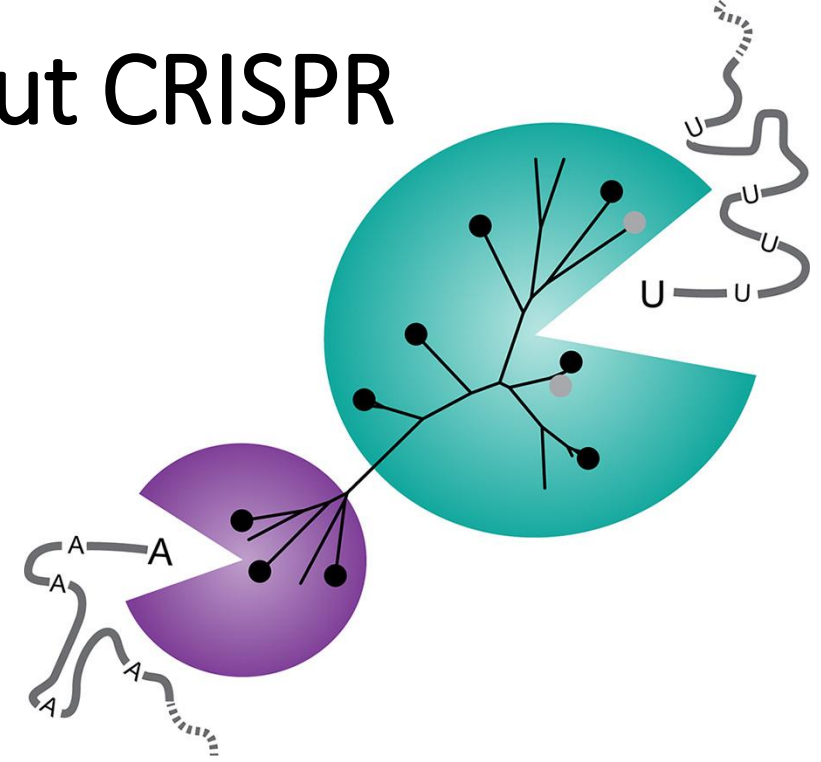
What You Need to Know About CRISPR

https://www.ted.com/talks/ellen_jorgensen_what_you_need_to_know_about_crispr?language=en



What You Need to Know About CRISPR

1. Damage to DNA – break double helix
2. **CAS 9** – “Pac-Man”/Guide RNA leads to proper matching site
3. **Cheap?** – relative – requires a professional lab
4. **Easy?** – much unknown about cells



What You Need to Know About CRISPR

5. Has been used in **leukemia research** – used in blood.

6. **Long-term effects of virus' left in cells is unknown.**

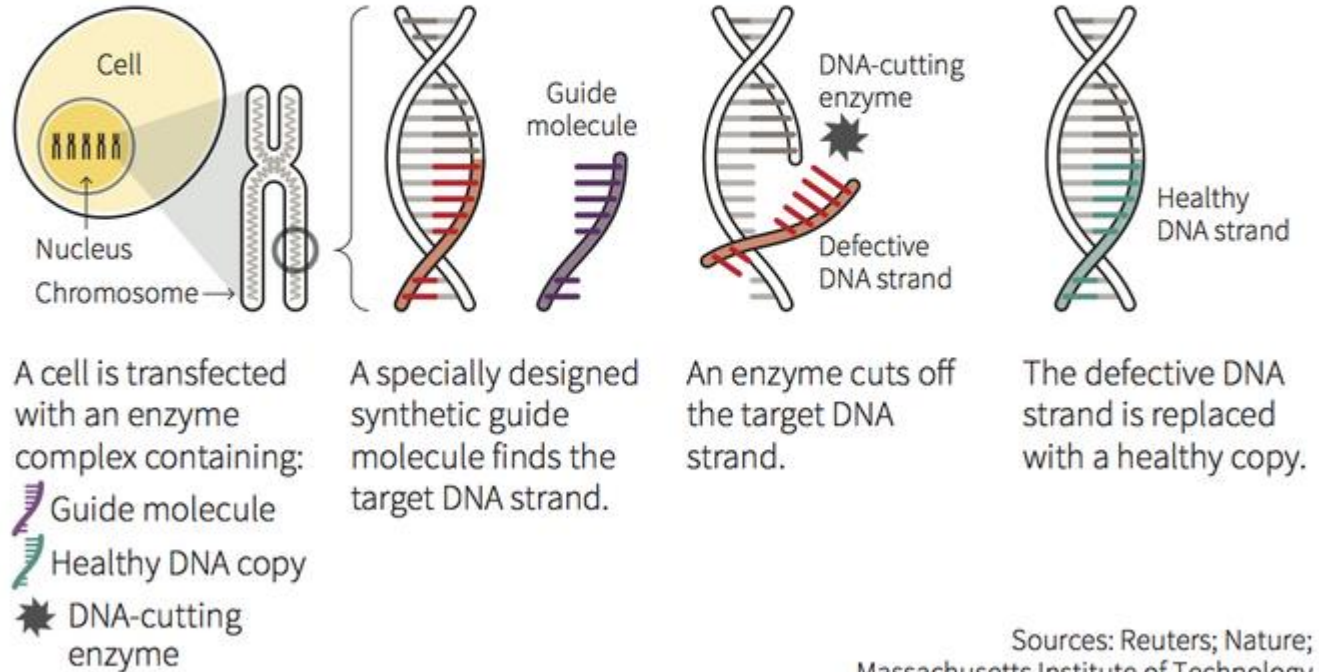
7. **Disease research** has been done with animals

8. **Industrial applications** – fermentation processes

DNA editing

A DNA editing technique, called CRISPR/Cas9, works like a biological version of a word-processing programme's "find and replace" function.

HOW THE TECHNIQUE WORKS



W. Foo, 24/04/2015

Sources: Reuters; Nature;
Massachusetts Institute of Technology

REUTERS