

## ETHICS IN BIOLOGY

In the Star Trek series Captain Kirk used a "Communicator". We smiled. Now we smile if we compare it to our mobile phones. The cloning of mammals was considered almost impossible, then Dolly arrived.

The debate on the CRISPR experiment in a pair of Chinese twins is not yet over, and now a similar experiment is planned in Russia, to treat prenatally a mutated gene that causes deafness (<https://www.sciencemag.org/news/2019/10/deaf-couple-may-edit-embryo-s-dna-correct-hearing-mutation>). Many concerns are about potential uncontrolled side effects. But the specificity of CRISPR is continuously improving (<https://www.nature.com/articles/s41586-019-1711-4>). Finally, Nature reports that a monkey embryo was grown in the laboratory up to 20 days (<https://www.nature.com/articles/d41586-019-03326-5>). Much to think about.