

# Advancements in Biotechnology

From the development of new drugs to surgical procedures, advancements in biotechnology have revolutionized the health care field.



1974

First foal born from embryo transfer technology in Japan

Used today to overcome infertility and in surrogacy arrangements



1996

First mammal was cloned from an adult somatic cell (Dolly the sheep)

Led to the discovery of pluripotent stem (iPS) cells which have the ability to self-renew



2016

Test-tube monkeys created with the MECP2 gene (associated with human autism spectrum disorder)

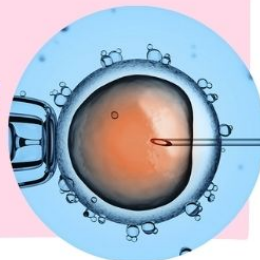
New animal model for studying brain disorders



1978

First successful in-vitro fertilization (IVF) pregnancy and live birth

Helps with the treatment of infertility and used to study early human development



2000

First biosteel transgenic goats genetically modified to produce a spider silk protein in their milk

Used for eye sutures, jaw repairs, and to make artificial ligaments and tendons

