FIRST CLONED SHEEP

DOLLY THE SHEP



BY GROUP 2

WHO IS DOLLY?

"DOLLY THE SHEEP"

DOLLY IS A SPECIAL SHEEP, SHE IS A GENETICALLY MODIFIED ORGANISM AND IS A PRODUCT OF CLONING.

WHAT HAPPENED IN 1996?

back in the year 1996, the roslin institute conducted an experiment that was trying to develop a better method for producing

genetically modified livestock.

A lot of people are involved:

The experiment were carried out at the Roslin Insititute by a team led by professor Sir Ian Wilmut. Because of the experiments nature the team was made out of many different professional people

SCIENTISTS





VETS

FARM STAFFS





Dolly was cloned from a cell taken from the mammary gland of a six year old finn Dorset and an egg cell taken from a Scottish Blackface Sheep.

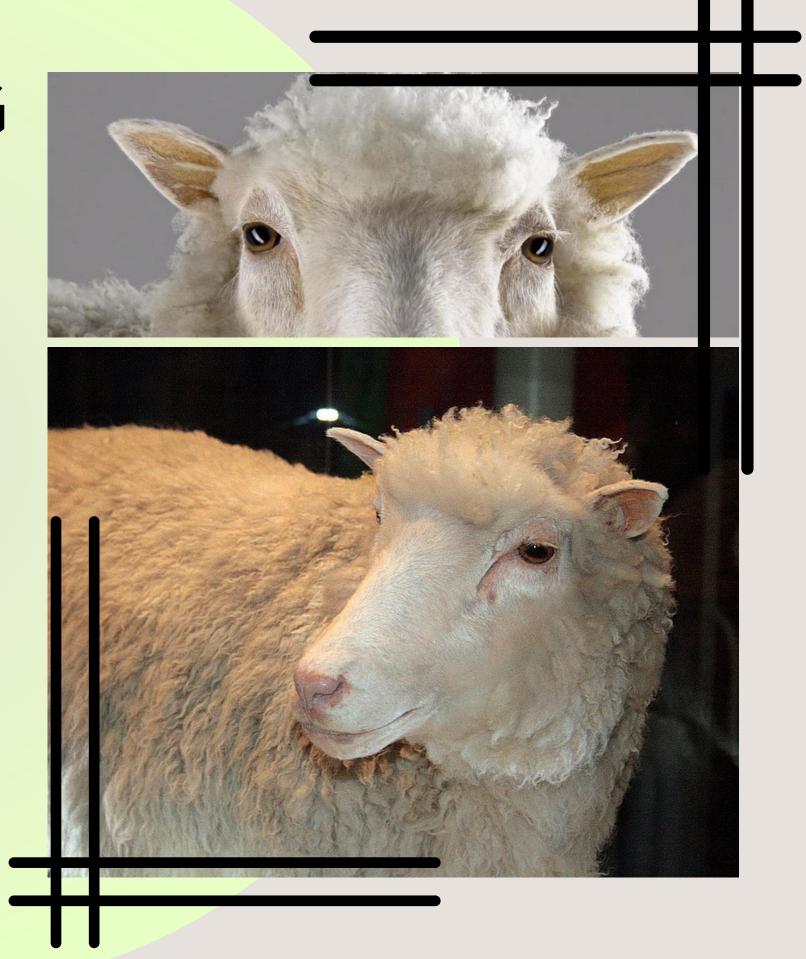
WHEN WAS DOLLY BORN?

ON JULY 5TH 1996, THE SCOTTISH BLACKFACE SHEEP GAVE BIRTH TO DOLLY.

FIRST SIGN OF CLONING

The first sign of cloning that the scientist observed was Dolly's white face.

She was genetically related to her surrogate mother, she would have had a black face which she doesnt.



WHEN WAS DOLLY ANNOUNCED TO THE WORLD?

"on February 22nd 1997"

Dolly was announced to the world and draw a lot of media attention.

HOW WAS DOLLY CREATED?

Dolly is the first cloned mammal, produced from an adult mammal in history and was named after dolly parton.

She was created using somatic cell nuclear transfer(an adult cells nucleus gets divided until it develops into an embryo and can be implanted into a surrogate).

THE DNA ANALYSIS OF DOLLY SHOWED THAT HER TELOMERES IS SHORTER COMPARED TO HOW IT IS USUALLY FOR A SHEEP HER AGE.

TELOMERES ARE 'CAPS' IN THE END OF DNA MOLECULES THAT PROTECT THE DNA FROM DAMAGE.

IN 2001

Dolly was diagnosed with arthritis after a farm staff noticed her walking stiffly.

IN 2003

DOLLY DEVELOPED A COUGH



She was examined and they found out that there's a tumor growing in her lungs.

THE SCIENTISTS DECIDED TO EUTHANIZE
DOLLY BECAUSE THEY DON'T WANT THE SHEEP
TO SUFFER

VALENTINES DAY OF 2003

DOLLY WAS PUT TO SLEEP AT THE AGE OF SIX.

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