

## 3 types of hybrids like myths exist in reality

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### The hybrid from the fetus

The first is when the **embryo absorbs its twin** . When one of the embryos dies, some of its cells mix with the other, making the fetus grow with two cell modules, one of itself and one foreign.

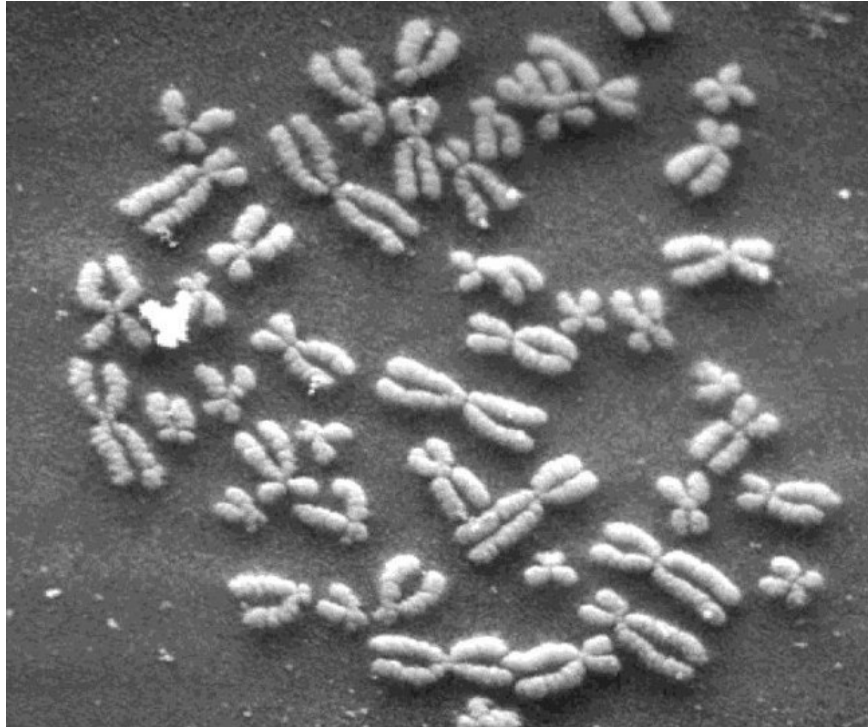


These people often do not know that they are chimera. In 2002, a patient named Karen Keegan needed a kidney transplant and had to have a genetic test to assess the ability of the family's organs. She was very surprised to learn that despite the heavy birth, the biological side, her children were not related to their mother. The reason is because Keegan is a chimera, so she has two genomes in blood cells.

## A normal person can also turn into a hybrid

Patients after **bone marrow transplant surgery** to cure white blood. They will completely destroy the marrow and receive marrow from another person. New marrow produces stem cells that grow into red blood cells. From then on until the end of their lives, they live on blood with a different set of genomes from the rest of the body.

There are a few special cases, the genome of donor and recipient may be the same but very rarely occur. Blood transfusions also introduced foreign cells but only temporarily.



Chromosomes under a microscope

## Temporary hybrid

This case is quite familiar to us, it is **pregnant women** . A part of the cell from the fetus enters the bloodstream and moves to other parts of the body. This happens to most women during pregnancy.

In 2015, a study of 26 male pregnant women showed that their kidneys, liver, spleen, heart, lungs and whole brain contained cells from the fetus, cells containing Y chromosome to determine male sex.

In some cases, these cells may be in the female body for several years or more. Brain examination of 59 women from 32 to 101 years of age showed that 63% of them had male DNA in the brain, the oldest person with fetal cells in the brain was 94 years old.

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