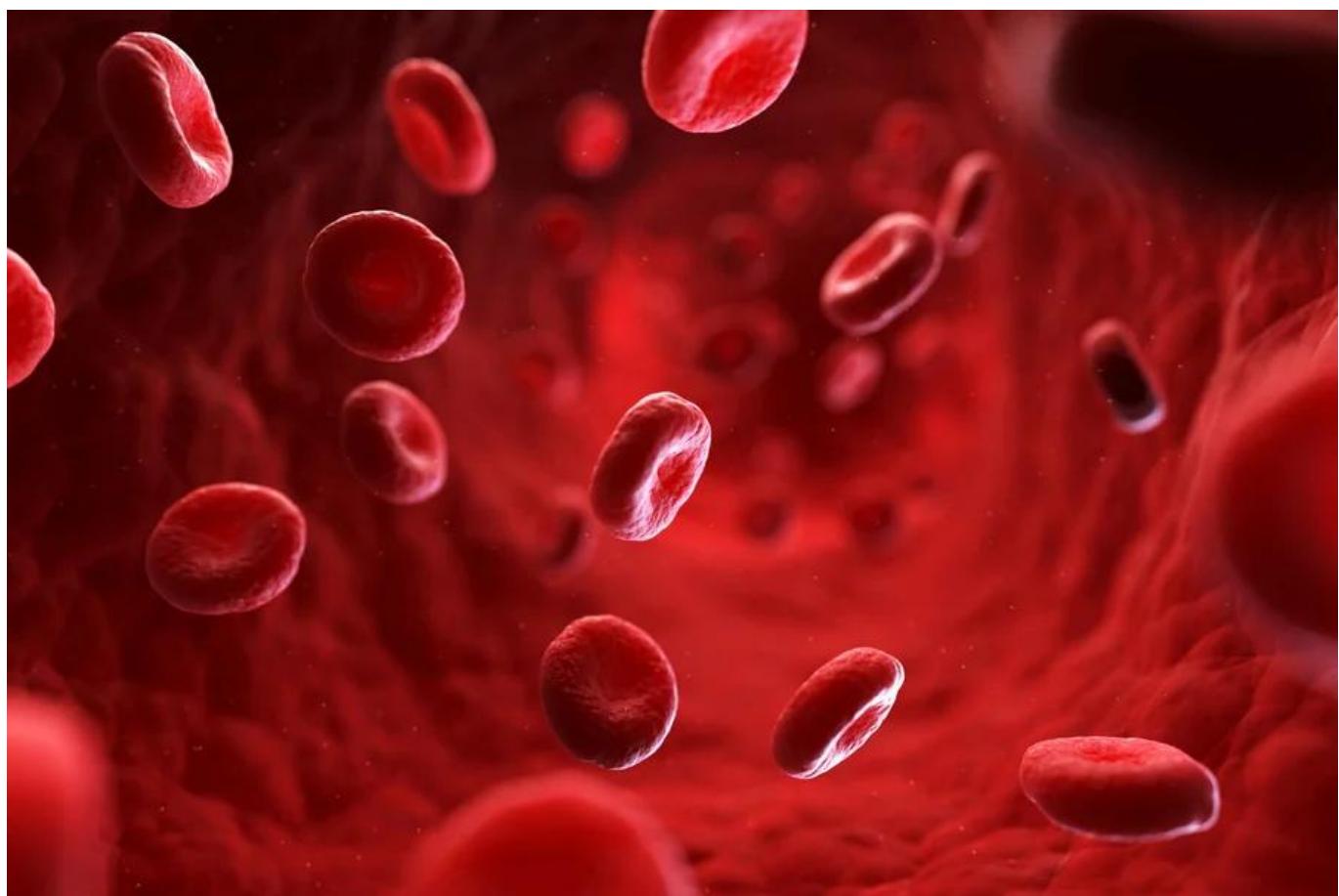


Medical scientists have discovered the most rare blood group. Its only carrier on the planet is a woman from Guadeloude. Her blood is so unique that doctors could not find a single donor for her.

Scientists called the Gvada-Generative a new blood group. Using the full -explosive sequencing (to study more than 20 thousand human genes), they revealed a mutation in the Pigz gene. This gene encodes an enzyme that is responsible for adding a certain sugar to an important molecule on cell membranes.

At the same time, a woman from Guadeloude with this blood group suffers from light mental retardation and lost two children during childbirth. These consequences may well be associated with its genetic mutation.



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The enzyme produced by the Pigz genome is involved in the final stage of the formation of the complex GPI molecule. Earlier studies have shown that people with other enzymes

necessary for the assembly of GPI may have neurological problems.

Now scientists are working on growing red blood cells from stem cells, which could be genetically modified to comply with rare blood groups. In the case of Guarda, it would be possible to artificially create red blood cells with a negative blood group, mutating the *Pigz* gene.