

Find out the mechanism of mutation of strange genes leading to breast cancer causing fever

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Researchers from the Yale Cancer Center said they have identified a new molecular mechanism that allows mutations caused by the BRCA1 gene to be involved in DNA repair to build up power against cancer tumors. .

Senior author Patrick Sung, professor of molecular physiology, biochemistry and phototherapy, said: *"There are about 14,000 documents written about BRCA1, and you will think we know everything about genes. hey, but we don't really know it yet. "*



Specifically, the researchers showed that the interaction of the BRCA1 gene with the BARD1 gene is necessary for DNA repair. They say their findings could be an important prerequisite for making better drugs to treat breast and ovarian cancer as well as help identify women at high risk for serious diseases. This particular danger.

"Determining the mechanism of the DNA repair pathway depends on the BRCA gene, which will help scientists make drugs to kill cancer cells more efficiently," Sung said in a newsletter. Yale.

Scientists found that women could inherit the risk of breast cancer when they discovered the role of BRCA1 in DNA repair and tumor suppression in these individuals. At first, it was believed that BRCA1 and BRCA2 mutations could account for up to 8% of the risk of breast and ovarian cancer.

The researchers found that the risk may be higher because in many cancers there is no evidence of mutation caused by this gene, but the potential expression of BRCA gene must be worth watching. .

"Understanding this mechanism will provide an important premise for doctors to predict the risk of future cancer" - Sung said.

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