New drugs can prevent genes that cause cancer

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Scientists are testing a drug that promises to block a gene involved in stimulating obesity from breast and lung cancer, as well as preventing that cancer cell from growing. Researchers at Michigan State University in the United States show that this drug, I-BET-762, is showing signs of significantly delaying the development of breast cancer and current lung cancer by not giving a cancer gene called c-Myc works while tracking it.

Karen Liby, Michigan's associate professor, said: "I-BET-762 works by directing the DNA so that the gene cannot work.

"It does this by inhibiting some important proteins - both in cancer and in immune cells - eventually reducing the number of cancer cells in mice to 80%," Liby, who leads one of the two The study is published in the journal Cancer Prevention.

These proteins are important because they play an important role in the development processes that take place between cells.

For example, a special protein, called pSTAT3, can be activated in immune cells and new drugs to prevent them from doing their genetic work, which will help fight invading cancer cells. In our study, the new drug reduces the activity of pSTAT3 cell type by 50%, "Liby said.

The second study, led by Jamie Bernard, a professor assistant in Michigan, applied Liby's findings to precancerous cells. "We looked directly at the effect of I-BET-762 on human cells that could become tumors, but

not in a complete structure," Bernard said.

"We found that this drug prevents more than 50% of these cells from becoming cancer tumors. C-Myc genes are caused by visceral fat, found around organs," he said. It contrasts with subcutaneous fat. "Half a million of all new cancers have been linked to obesity".