

Another issue is that doctors do not have good drugs for halting the progress of prostate cancer, according to Dr. Pier Paolo Pandolfi, a prostate cancer researcher at the Memorial Sloan-Kettering Cancer Center in New York. Having such drugs would make information about a person's future risk more useful, Pandolfi said, because the highest-risk group could be treated before people have symptoms.

The research may eventually lead biologists to such treatments, said Pandolfi and other scientists. Today, the cause of prostate cancer is a mystery, so it is difficult to find ways of attacking it. The new research provides insight into the disease, though biologists said the results were puzzling because the genetic variants linked to prostate cancer do not lie within a gene.

Genes are stretches of DNA that instruct cells to create certain proteins, which are the machinery and building blocks of all life, from bacteria to humans. Many of the genetic causes of diseases discovered until now have been mutations in genes, which lead cells to make defective proteins or to make too little or too much of a protein.

In this case, however, it is not clear how the genetic variations cause the biological changes that lead to cancer. All of the variants are found near a gene that is known to be overactive in prostate cancer tumors, so it is possible that the variants cause some change in how that gene functions. Or, biologists said, perhaps something else is happening.

"Right now we are completely in the dark," said Pandolfi. "But it is only when you raise the questions that you can look for answers."

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Abstract (Document Summary)

The field of prostate cancer genetics is moving rapidly. Last year, deCODE Genetics, a company in lceland, identified the first genetic variant, a portion of DNA that is different from the rest of the population's, which is associated with a 60 percent increase in risk of prostate cancer. The new work, led by David Reich of Harvard Medical School, identified five variants. These six variants, as well as another one already found, are more common in Americans with African ancestors than those with European ancestors, Reich said.

The new variants were identified by studying the DNA of 7,500 people, some of whom had prostate cancer. The research team focused on a particular region on chromosome 8, which previous research, including the deCODE work, has implicated in the disease. They looked for DNA variants that victims of prostate cancer tended to have, but healthy people did not.

The research may eventually lead biologists to such treatments, said [Pandolfi] and other scientists. Today, the cause of prostate cancer is a mystery, so it is difficult to find ways of attacking it. The new research provides insight into the disease, though biologists said the results were puzzling because the genetic variants linked to prostate cancer do not lie within a gene.

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