



Case study

DNA collected with Oragene®•DNA chosen for study to identify genetic variants associated with aggressive prostate cancer

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Study overview

"We chose Oragene•DNA because the saliva collection kit is very easy to handle and it offers a non-invasive method to collect DNA. The room temperature storage is ideal for us as we had multiple clinics for DNA collection in various locations throughout China. Transporting and storing the DNA saliva samples was easy."

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The Center for Cancer Genomics at Wake Forest University Health Sciences uses genomics to gain an understanding of the complex processes involved in the development and progression of various types of cancer, and to develop approaches to utilize this information for the prediction of cancer and personalized intervention. Dr. Xu is a Professor and the Director of the Center for Cancer Genomics at Wake Forest University. Dr. Xu is a well known genetic epidemiologist who specializes in genetic studies focused on prostate cancer. He has published about 200 papers on the genetics of cancer and other complex diseases in leading journals, including NEJM, Nature Genetics, and JNCI.

Dr. Xu is currently involved in a research study to identify genetic variants that are associated with aggressive prostate cancer and the progression of prostate cancer in men of Chinese descent and European descent. Most aging men will develop lesions that would be diagnosed as prostate cancer. While most of these cancers are indolent and remain localized; a subset of prostate cancer is aggressive¹. Identification of factors associated with risk for aggressive prostate cancer could help reduce over diagnosis and over treatment of this common disease. The study of men with Chinese descent may provide an opportunity to significantly narrow the region harboring causal variants by comparing with men of European descent.

The study participants (men of Chinese descent who have been diagnosed with prostate cancer) are recruited through the Shanghai Center for Disease Control, Changhai Hospital, and Fudan-VARI Center for Genetic Epidemiology in Shanghai, China.

1 Jianfeng, Xu, Siqun Lilly Zheng, et al., *PNAS*, Inherited genetic variant predisposes to aggressive but not indolent prostate cancer.



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