



Relationship between SPOP mutation and breast cancer in Chinese population

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Genet. Mol. Res. 14 (4): 12362-12366 (2015)

Received May 14, 2015

Accepted July 31, 2015

Published October 16, 2015

DOI <http://dx.doi.org/10.4238/2015.October.16.2>

ABSTRACT. SPOP protein has been found to have ubiquitin ligase activity. Mutations in SPOP gene have been recently reported in some cancers such as prostate, gastric, colorectal cancer. We investigated SPOP DNA mutation in tumor tissues collected from 70 Chinese female breast cancer patients in Southwestern China by DNA sequencing. The results did not show mutation in our tissue samples, indicating that a mutation in the SPOP gene may not be associated with breast cancer, particularly in Chinese women. This DNA mutation analysis or DNA genotyping may provide useful and important information for genetic counseling and personalized medical treatment for different types of cancers.

Key words: Breast cancer; Chinese women; Exome sequencing; SPOP gene