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## **Hereditary breast cancer and the clinical significance of variants in the BRCA1 and BRCA2 genes**

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**Title:** Hereditary breast cancer and the clinical significance of variants in the BRCA1 and BRCA2 genes

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Stellingen behorend bij het proefschrift getiteld:

**HEREDITARY BREAST CANCER AND  
THE CLINICAL SIGNIFICANCE OF VARIANTS IN  
THE BRCA1 AND BRCA2 GENES**

1. The prospect of obtaining additional information from a family should be taken into account before the communication of a Variants of Uncertain Significance (VUS) test result with the counselee. (This thesis)
2. Missense variants at the same position in the same gene can confer different cancer risks. (This thesis)
3. Regular communication between the clinical geneticist and clinical laboratory geneticist is of utmost importance in the future of genetic counselling. (This thesis)
4. DNA-sequencing technologies are considered very luxurious in some parts of the world. For this reason carrier prediction algorithms such as BOADICEA and BRCAPRO can be of vital importance in the counselling. (This thesis)
5. In order to determine the surveillance advice for carriers of a pathogenic variant, not only cancer risk associated with the variant, but also the biological characteristics of the tumour should be taken into account.
6. Identification of BRCA-ness has implications for the selection of therapies. (C.J. Lord and A. Ashworth, *Nat Rev Cancer*. 2016;16:110-20)
7. "Clinicians, patients and their relatives would all benefit from an improved level of genetic literacy". (D.M. Eccles et al. *Ann Oncol*. 2015;26:2057-65)
8. Genetic testing should be done only after a thorough genetic counselling.
9. It is not the strongest who survive, but the ones most adaptable to change. This also applies to the evolution of cancer. (Adapted from Charles Darwin)
10. For an unbiased process of peer-reviewing, the authors of a manuscript should remain unknown to the reviewers.
11. Our most valuable resource is time. Yet when there is a will, we make time to find a way.

Setareh Moghadasi, 30 November 2017