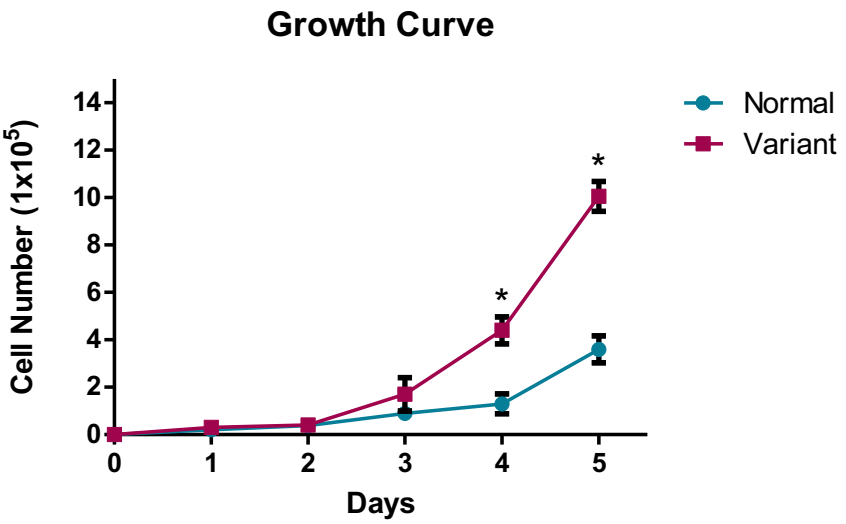
Gene Sequencing Results for Patient 1
(* = There is a significant difference observed and a conclusion can be made)

Gene 1

- Insertion of T at position 457



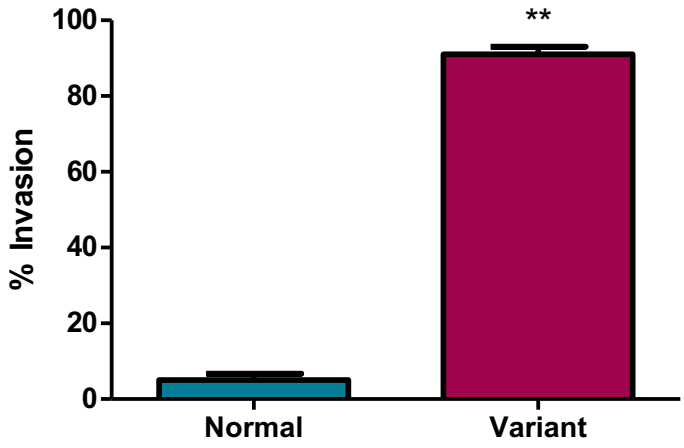
- Cells with the normal phenotype and cells with the *Gene 1* mutation were counted

Gene 5

- Point mutation at position 343 G→A (***BRCA1* Mutation**)

Gene 6

- Deletion of bases TGAAGC at position 125

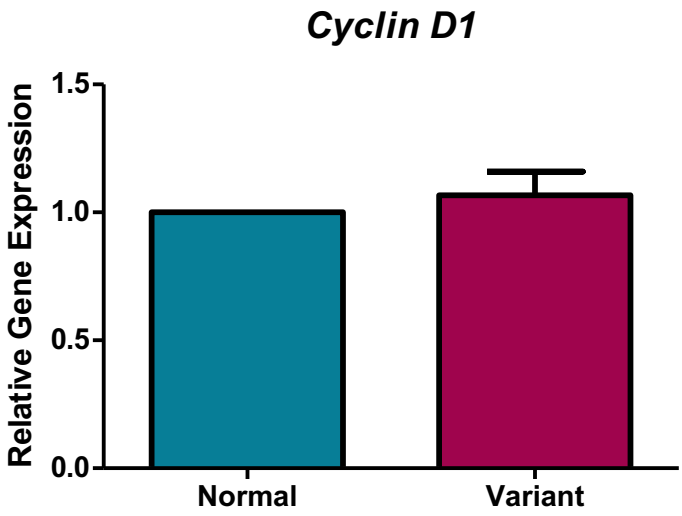


Gene 7

- No mutation

Gene 8

- Point mutation at position 222 A→C

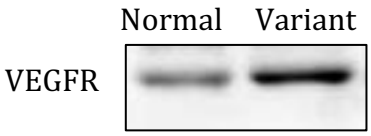


- mRNA expression of the cell cycle protein Cyclin D1 that is regulated by GENE 8

Gene 10

- Deletion of a G at position 14

Western Blot of Angiogenesis Marker Protein



- A western blot looks at the expression level of a protein of interest. Each lane was loaded with a protein sample from cells with a normal GENE 10 or with the mutated GENE 10 (variant). The level of expression is correlated with the thickness or intensity of the band seen.

Gene 11

- No mutation

Gene Sequencing Results for Patient 2
(* = there is a significant difference observed and a conclusion can be made)

Gene 1

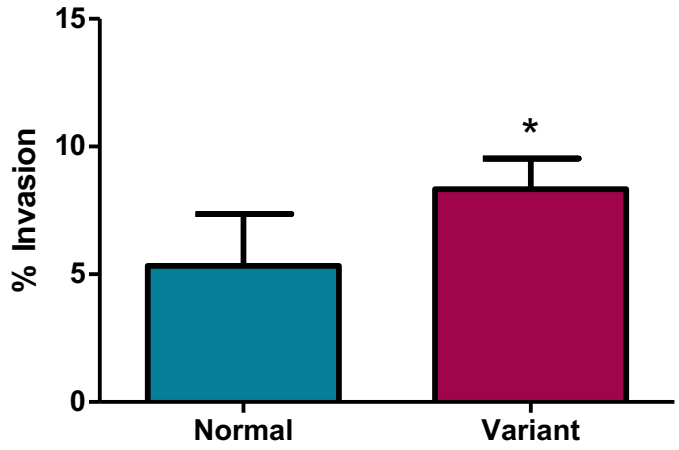
- No mutation

Gene 5

- No mutation

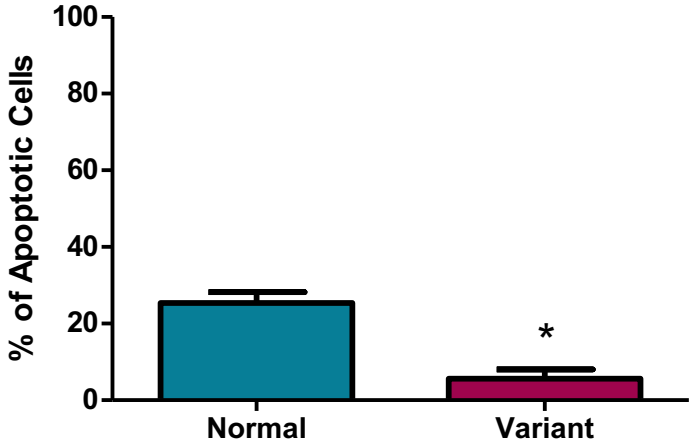
Gene 6

- Point mutation at position 589 T→C



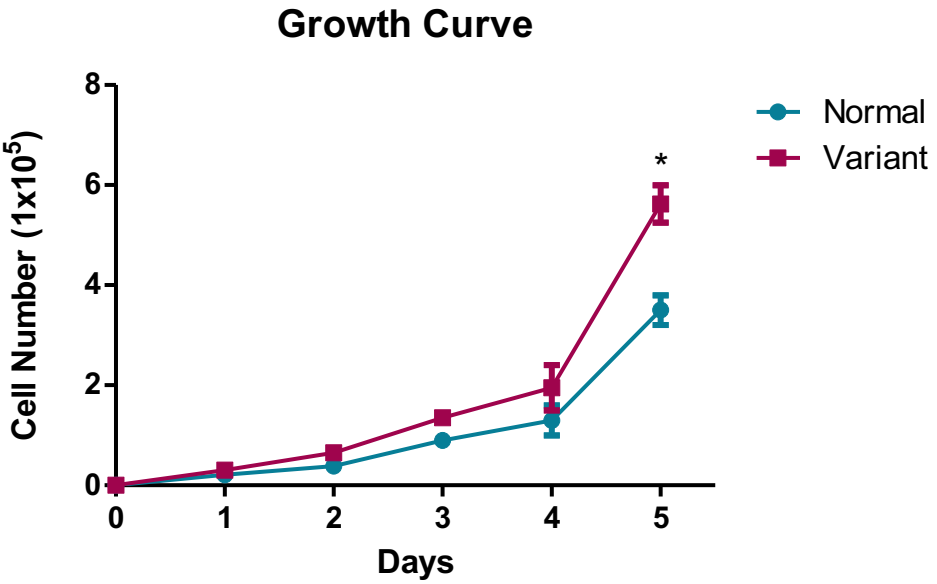
Gene 7

- Inversion from position 12 to 58



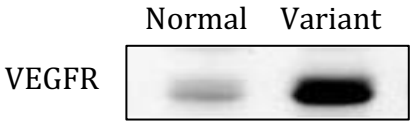
Gene 8

- Deletion of exon 2



Gene 10

- Deletion of a G at position 762



- A western blot looks at the expression level of a protein of interest. Each lane was loaded with a protein sample from cells with a normal GENE 12 or with the mutated GENE 12 (variant). The level of expression is correlated with the thickness or intensity of the band seen.

Gene 11

- No mutation