

The role of BRCA status on prognosis in patients with triple-negative breast cancer

SUPPLEMENTARY MATERIALS

Supplementary Table 1: Detailed information about *BRCA1* and *BRCA2* mutations

Gene	Exon	Nucleotide change	Amino acid change	Category ^a	Variant type	Somatic/germline
<i>BRCA1</i>	2	c.66dup	E23INS	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	8	c.519del	Q174DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	11	c.981_982del	C328DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	11	c.2556_2557insTTCACCTTTTC	L852INS	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	11	c.2570T>A	L857*	P	Nonsense mutation	Germline
<i>BRCA1</i>	11	c.4069_4070insTTGA	Q1356DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	16	c.4801A>T	K1601*	P	Nonsense mutation	Germline
<i>BRCA1</i>	16	c.4712del	F1571DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	24	c.5470_5477del	I1824DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA1</i>	24	c.5503C>T	R1835*	P	Nonsense mutation	Somatic
<i>BRCA1</i>	16-17	c.4676_5074del	E1559_T1691del	P	Exonic deletion	Germline
<i>BRCA1</i>	5	c.192T>G	C64W	P	Missense mutation	Germline
<i>BRCA2</i>	10	c.1399A>T	K467*	P	Nonsense mutation	Germline
<i>BRCA2</i>	11	c.6402_6406del	N2134DEL	P	Frameshift insertion/deletion	Germline
<i>BRCA2</i>	11	c.5645C>A	S1882*	P	Nonsense mutation	Germline

^aVariants were annotated using Alamut software (Interactive biosoftware, France) integrated with multiple databases. Germline variants were interpreted according to the American College of Medical Genetics and Genomics (ACMG). Variants that produce premature termination codons which are associated with non-functional or truncated proteins were classified as pathogenic (P) variants: such as nonsense mutations, frameshift mutations, splice site mutations and exonic deletions. Similarly, inactivating somatic variants were considered as pathogenic variants: such as nonsense mutations and frameshift mutations.

Supplementary Table 2: Age distribution of BRCA1 mutation in 70 triple-negative breast cancer patients

Age of onset	Total TNBC No. of patients	BRCA1 carrier	
		No.	%
<40	10	1	10
<50	38	8	21.1
<60	55	11	20.0
<70	67	12	17.9
≤80	70	12	17.1