

**Table S5.** Evaluation of the general *BRCA1* and *BRCA2* classifications within each of the molecular subtype sample groups

	No. of samples ( <i>BRCA1</i> / sporadic)	Sensitivity (TP)	Specificity (TN)	Accuracy <sup>a</sup>	<i>p</i> -value <sup>b</sup>
<b><i>BRCA1</i> classification</b>					
Basal-like	20 / 10	0.95 (19)	0.00 (0)	0.48	1.00
HER2-enriched	2 / 14	0.00 (0)	0.79 (11)	0.39	1.00
Luminal A	1 / 55	1.00 (1)	0.96 (53)	0.98	0.05
Luminal B	9 / 48	0.33 (3)	0.92 (44)	0.63	0.07
Normal-like	1 / 1	0.00 (0)	1.00 (1)	0.50	1.00
	No. of samples ( <i>BRCA2</i> / sporadic)	Sensitivity (TP)	Specificity (TN)	Accuracy <sup>a</sup>	<i>p</i> -value <sup>b</sup>
<b><i>BRCA2</i> classification</b>					
Basal-like	2 / 10	1.00 (2)	0.90 (9)	0.95	0.04
HER2-enriched	0 / 14	-	0.79 (11)	-	-
Luminal A	3 / 55	0.33 (1)	0.89 (49)	0.61	0.33
Luminal B	16 / 48	0.88 (14)	0.81 (39)	0.84	1.4×10 <sup>-6</sup>
Normal-like	1 / 1	1.00 (1)	1.00 (1)	1.00	1.00

<sup>a</sup> Mean balanced accuracy

<sup>b</sup> Fisher's exact test

Abbreviations: TP, true positive; TN, true negative