Supplementary File S1. Clinical characteristic of the breast cancer validation cohort.

		Non-metastatic BC patients		Metastatic BC patients	
		n	**(%)**	**n**	**(%)**
Number of patients (Total= 35)		11		24	
Age at diagnosis	**≤ 50**	2	18.2	6	25.0
	> 50	9	81.8	18	75.0
Hormonal status	**Preperim.**	2	18.2	6	25.0
	Postmen.	9	81.8	18	75.0
Tumor size (cm)	**<2**	7	63.6	8	33.3
	2-5	4	36.4	14	58.3
	>5	0	0	2	8.3
Tumor stage	**I**	4	36.4	4	16.7
	II	4	36.4	10	41.7
	III	3	27.3	10	41.7
Hystological grade	**1**	1	9.1	0	0
	2	6	54.5	12	50
	3	4	36.4	11	45.8
	Unknown	0	0	1	4.2
Histologic subtype	**Lobulillar**	1	9.1	3	12.5
	Ductal	9	81.8	19	79.2
	Medullar	1	9.1	0	0
	Mixed	0	0	2	8.3
Intrinsic subtype	**Luminal A**	3	27.3	3	12.5
	Luminal B	5	45.5	11	45.8
	Luminal B-HER2	1	9.1	2	8.3
	Triple negative	2	18.2	7	29.2
	HER2-enriched	0	0	1	4.2
Type of surgery	**Conservative**	7	63.6	14	58.3
	Radical	4	36.4	10	41.7
Affected lymph node	**Negative or unknown**	5	45.5	7	29.2
	1-3	4	36.4	6	25.0
	≥ 4	2	18.2	11	45.8
First-location metastasis	**Bone**			5	20.8
	Liver			9	37.5
	Lymph nodes			1	4.2
	Pleura			1	4.2
	Lung			4	16.7
	Central Nervous System			2	8.3
	Breast			2	8.4

Preperim.: pre-perimenopausal status, Postmen.: postmenopausal status