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Supplemental table 1. Correlation between FOXC1 expression with clinico-pathological parameters in TNBC of IBC-NST cases only.

Characteristics	FOXC1 expression				P
	Overall	FOXC1 Positive(n=278)	%	FOXC1 negative (n=49)	
Age					.007
<50	165	149	90.30	16	9.70
≥50	162	129	79.63	33	20.37
Grade					.004
1,2	51	31	60.78	20	39.22
3	268	241	89.93	27	10.07
unavailable	8	6	75.00	2	25.00
Tumor Size	0				.87
pT1	132	110	83.33	22	16.67
pT2	184	158	85.87	26	14.13
pT3	10	9	90.00	1	10.00
unavailable	1	1	100.00	0	0.00
Node metastasis	0				.33
pN0	200	165	82.50	35	17.50
pN1	68	58	85.29	10	14.71
pN2	22	21	95.45	1	4.55
pN3	12	9	75.00	3	25.00
unavailable	25	25	100.00	0	0.00

Abbreviations: FOXC1, forkhead box transcription factor C1; IBC-NST, invasive breast carcinoma of no special type; N, lymph node metastasis; TNBC: triple- negative breast cancer; T, tumor size.

Supplemental table 2. FOXC1 and CK5/6 expression in 6 cases of metaplastic carcinoma.

subtypes	FOXC1	CK5/6
Spindle cell carcinoma	negative	positive
Squamous cell carcinoma	positive	positive
Metaplastic carcinoma with heterologous mesenchymal differentiation	positive	positive
Metaplastic matrix-producing carcinoma	positive	positive
squamous cell carcinoma, accompanying with conventional IDC component	positive	negative
metaplastic carcinoma with heterologous mesenchymal differentiation, accompanying with conventional IDC component	positive	negative

Abbreviations: CK5/6, cytokeratin 5/6; FOXC1, forkhead box transcription factor C1, IDC, invasive ductal carcinoma.

Supplemental table 3. FOXC1 mRNA expression in different histologic subtypes of BLBC in TCGA datasets.

Histologic subtype	FOXC1 expression				
	overall	FOXC1 high(n=127)	%	FOXC1 low (n=5)	%
Invasive breast carcinoma, NST	120	117	97.50	3	2.50
Metaplastic carcinoma	6	6	100	0	0
Invasive lobular carcinoma	4	3	75	1	25
Invasive mucinous & IBC-NST	1	1	100	0	0
Invasive neuroendocrine carcinoma, large-cell type, high-grade	1	0	0	1	100

Abbreviations: BLBC, basal-like breast cancer; FOXC1, forkhead box transcription factor C1; IBC-NST, invasive breast carcinoma of no special type; LN, lymph node; TCGA, The Cancer Genome Atlas.