

**Table S1.** Patient and tumor characteristics of the study population.

Patient tissue groups	No. of Samples	Patient Age (years)	
		Mean (Median)	Range
Normal	34	43 (44)	17-70
CIS	75	55.9 (57)	27-83
IBC	142	54.5 (53)	23-88
IBC normal match	77	50.8 (49)	23-88

  

Characteristic	Status	IBC (%)	CIS (%)
Tumor size	pT1	26.1%	
	pT2	59.2%	
	pT3	10.6%	
	pT4	3.5%	
	No report	0.7%	
Lymph node status	Positive	56.3%	
	Negative	34.5%	
	No report	9.2%	
Grade (Nottingham score)	I	4.2%	
	II	31.0%	
	III	57.7%	
	No report	7.0%	
Nuclear grade	Low		9.3%
	Medium		52.0%
	High		37.3%
	No report		1.3%
ER	Negative	36.6%	18.5%
	Positive	63.4%	81.5%
	No report	0.0%	0.0%
PR	Negative	46.5%	21.5%
	Positive	53.5%	78.5%
	No report	0.0%	0.0%
HER2/ErbB2	Negative/Equivocal	79.6%	72.3%
	Positive	20.4%	23.1%
	No report	0.0%	4.6%
Histological type	IDC	88.4%	
	ILC	11.6%	
	Both	3.4%	
	DCIS (with invasion)		5.1%
	DCIS (no invasion)		88.5%
	LCIS		6.4%