

Pt	Tissue Classification	Histology	Grade	Of the prevailing cancer histology:			Pt	Tissue Classification	Histology	Grade	Of the prevailing cancer histology:		
				% Viable Tumor Cells	% Necrosis	% Inflammatory Component					% Viable Tumor Cells	% Necrosis	% Inflammatory Component
1	NI	100% normal					31	NI	100% normal				
2	NI (fatty)	100% normal fibroadipose, no glands					32	NI	100% normal				
3	CA	100% invasive ductal carcinoma	2	10%	10%	3%	33	CA	100% invasive mucinous carcinoma	1	5%	0%	0%
4	NI	95% normal, 5% columnar cell change without atypia					33	NI	100% normal				
5	CA	100% invasive ductal carcinoma	3	60%	0%	3%	34	NI (fatty)	100% adipose				
5	NI (fatty)	100% normal fibrofatty				0%	35	NI	100% normal				
6	CA	60% invasive ductal carcinoma	3	15%	0%	10%	36	NI	100% normal				
7	NI	100% fibroglandular tissue					37	NI	100% breast parenchyma				
8	CA	100% invasive ductal carcinoma	3	70%	5%	5%	37	NI	100% breast parenchyma				
8	NI	100% normal					38	NC	95% normal, 5% proliferation without atypia				
9	CA	100% invasive lobular carcinoma	2	10%	0%	0%	38	NC-M	95% normal, 5% proliferation with atypia				
10	CA	100% invasive ductal carcinoma	2	15%	0%	1%	39	NI-A	95% normal, 5% proliferation with atypia				
11	NI	98% normal, 2% Proliferation without atypia				1%	40	CA	100% invasive ductal carcinoma	3	30%	0%	2%
12	CA	100% invasive ductal carcinoma	3	80%	20%	5%	40	NI	100% normal				
12	NI	100% normal					41	CA	100% invasive ductal carcinoma	3	80%	0%	5%
13	CA	80% invasive ductal carcinoma, 10% DCIS Cribriform, 10% normal	1	15%	0%	0%	42	CA	90% invasive ductal carcinoma, 10% normal	2	15%	0%	
13	NI	97% normal, 3% proliferation without atypia				5%	43	CA	100% invasive lobular carcinoma	2	7%	0%	15%
14	CA	100% invasive ductal carcinoma	3	25%	1%	1%	43	CA	100% invasive lobular carcinoma	2	15%	0%	2%
14	NI	100% normal					43	NI	95% normal, 5% proliferation without atypia				
15	NI (fatty)	100% adipose					44	NI (fatty)	100% fibroadenoma				5%
16	CA	90% invasive ductal carcinoma, 10% normal	2	15%	0%	2%	45	NM	100% normal				
16	NI	100% fibroglandular					46	NM	100% normal				
16	NC (fatty)	100% adipose					47	NM	100% normal				
17	CA	90% invasive ductal carcinoma, 10% normal	3	70%	0%	5%	48	NM	100% normal				
17	NI (fatty)	100% adipose					49	NM	100% normal				
18	CA	95% invasive mixed ductal/lobular carcinoma, 5% normal	2	15%	0%	2%	50	NM	100% normal				
18	NI	100% fibroglandular					51	NM	100% normal				
19	NI (fatty)	100% adipose					52	NM	100% normal				
20	CA	80% invasive ductal carcinoma, 20% normal	2	30%	0%	5%	53	NM	100% normal				
20	NI	100% normal					54	NM	100% normal				
21	CA	100% invasive ductal carcinoma	2	30%	0%	5%	55	NM	100% normal				
21	NI (fatty)	100% normal					56	NM (fatty)	100% fibroadipose				
22	NI (fatty)	100% fibroadipose					56	NM (fatty)	100% fibroadipose				
23	NI	100% normal					57	NM	100% normal				
24	CA	95% invasive metaplastic carcinoma, 5% normal	3	15%	0%	5%	58	NM	100% normal				
24	NI (fatty)	100% fibroadipose					58	NM (fatty)	100% fibroadipose				
25	NI	95% normal, 5% proliferation without atypia					59	NM	100% normal				
26	CA	100% invasive lobular carcinoma		95%	0%	0%	59	NM (fatty)	100% fibroadipose				
26	NI	100% normal					60	NM (fatty)	100% fibroadipose				
27	CA	80% invasive lobular carcinoma, 20% normal	1	70%	0%	5%	61	NM (fatty)	100% fibroadipose				
27	NI	100% normal					61	NM (fatty)	100% fibroadipose				
28	NI	100% normal					62	NM	100% normal				
29	NI (fatty)	100% adipose					63	NM	100% normal				
30	CA	100% invasive ductal carcinoma	2	15%	0%	1%	63	NM (fatty)	100% fibroadipose				
31	NI	100% normal					64	NM	100% normal				

Table S2. Tissue Characteristics. Histopathological examination was performed on the tissue piece adjacent to the one used for RNA extraction. Patient numbers in the first column match those in table S1. Tissue classification is explained in table S1. In the case of tumor tissue, the histology lists the percentage of the tissue specimen that was involved by tumor. The percentage of viable tumor cells, necrosis and the inflammatory component within the tumor histology is listed in the last three columns. These numbers don't add up to 100% as we did not record the percentage of fibrous or fatty tissue. However, we limited collection of all tissues to those with less than 60% fat. Please note that tumor grade of an individual tissue piece might differ from the grade of the entire tumor listed in table S1.