

Table S1. Association between tamoxifen treatment status and either ER or HER2 status for all tumour explant preparations used

ID	Tam	HER2	ER	SA	IMC	ITC	V	Grade	A	M	N	Node
1	N	-	-	3.71805	-112.521	1331.94	0.014	3	2	3	3	-
2	N	-	-	2.15997	-109.619	6096.12	0.01	3	2	3	3	-
3	N	-	-	0.814787	-53.9158	149.87	0.003	3	3	2	3	+
4	N	-	-	1.50304	-55.3955	1129.3	0.006	3	3	2	3	+
5	N	-	-	2.61339	-157.79	15070.9	0.014	3	3	3	3	-
6	N	-	-	1.75235	-114.633	9526.25	0.008	3	3	3	3	-
7	N	-	+	0.969115	-81.0478	11214.4	0.005	1	3	2	3	+
8	N	-	+	3.74823	-167.097	5102.44	0.014	1	3	2	3	-
9	N	-	+	4.08243	-142.723	324.015	0.017	3	3	2	3	-
10	N	-	+	2.75507	-79.0427	626.393	0.013	3	1	1	2	-
11	N	-	+	2.49337	-79.2312	-2267.05	0.012	3	1	1	2	-
12	N	-	+	2.78076	-87.8393	-184.171	0.009	3	3	2	3	+
13	N	-	+	3.00992	-111.694	1629.05	0.011	1	3	2	3	+
14	N	-	+	0.997003	-55.0545	2619.56	0.004	3	1	1	2	-
15	N	+	-	1.31535	-76.5772	2160.98	0.005	3	3	2	3	+
16	N	+	+	3.74723	-141.538	-2855.45	0.016	2	3	1	2	-
17	N	+	+	0.441179	-35.582	3248.06	0.002	2	2	3	3	-
18	N	+	+	3.56894	-143.673	2295.02	0.017	3	3	1	2	-
19	Y	-	-	2.5846	-75.4911	2863.36	0.014	3	2	3	3	-
20	Y	-	-	1.96822	-68.5846	1363.61	0.009	3	2	3	3	-
21	Y	-	-	1.60913	-62.6364	4382.64	0.009	3	3	3	3	-
22	Y	-	-	1.97023	-102.94	3107.17	0.011	3	3	3	3	-
23	Y	-	+	1.67211	-77.8919	4412.2	0.008	3	3	2	3	+
24	Y	-	+	2.82405	-95.1963	-1391.58	0.014	1	1	1	2	-
25	Y	-	+	0.558794	-21.2854	1435.38	0.003	1	1	1	2	-

ID	Tam	HER2	ER	SA	IMC	ITC	V	Grade	A	M	N	Node
26	Y	-	+	3.39935	-118.119	2200.03	0.018	3	3	2	3	-
27	Y	+	-	2.28628	-94.6485	299.74	0.009	3	3	2	3	+
28	Y	+	-	2.64124	-124.631	-795.789	0.011	3	3	2	3	+
29	Y	+	+	1.55899	-99.5469	4087.65	0.006	2	3	1	2	-
30	Y	+	+	0.917186	-51.573	2109.26	0.004	2	3	1	2	-

For each of the 30 tumours, the table shows ER, HER2, lymph node status and whether the tumour has been treated with tamoxifen (Y) or not (N). Additionally, Minkowski functionals used in the analysis (SA, IMC, ITC and V) are provided as absolute values. Tumour grading information (overall grade, A, M and N) and node status are included.